

NEWS LETTER

Society of American Bacteriologists

OFFICE OF THE
SECRETARY-TREASURER

STERLING-WINTHROP RESEARCH INSTITUTE
RENSSELAER, N. Y.

VOLUME 22

August 1956

NUMBER 3

1956 OFFICERS AND COUNCILORS

<i>President:</i>	C. A. STUART, Brown University, Providence, R. I.
<i>Vice-President:</i>	P. W. WILSON, University of Wisconsin, Madison, Wis.
<i>Secretary-Treasurer:</i>	J. H. BAILEY, Sterling-Winthrop Research Institute, Rensselaer, N. Y.
<i>Business Manager:</i>	F. C. HARWOOD, Mt. Royal and Guilford Aves., Baltimore 2, Maryland
<i>Councilors-at-Large:</i>	C. A. EVANS, University of Washington, Seattle, Washington
	CARL S. PEDERSON, Agri. Exper. Station, Geneva, N. Y.
	J. W. BARTHOLOMEW, University of Southern California, Los Angeles, Cal.
	C. F. NIVEN, JR., University of Chicago, Chicago, Ill.

Councilors Elected by Local Branches:

H. A. Wilson, Morgantown, W. Va.	<i>Allegheny</i>
M. P. Starr, Davis, California.	<i>Northern California-Hawaii</i>
M. J. Pickett, Los Angeles, California.	<i>Southern California</i>
S. G. Dunlop, Denver, Colorado.	<i>Colorado-New Mexico-Wyoming</i>
Ethel T. Eltinge, South Hadley, Mass.	<i>Connecticut Valley</i>
Murray M. Streitfeld, Miami, Florida.	<i>South Florida</i>
J. C. McCaffrey, Chicago, Illinois.	<i>Illinois</i>
J. O. MacFarlane, Indianapolis, Indiana.	<i>Indiana</i>
Stanley Marcus, Salt Lake City, Utah.	<i>Intermountain</i>
D. F. Holtman, Knoxville, Tennessee.	<i>Kentucky-Tennessee</i>
Harriette D. Vera, Baltimore, Maryland.	<i>Maryland</i>
Raymond Sarber, Detroit, Michigan.	<i>Michigan</i>
L. F. Laskowski, St. Louis, Missouri.	<i>Eastern Missouri</i>
C. A. Hunter, Topeka, Kansas.	<i>Missouri Valley</i>
E. R. L. Gaughran, New Brunswick, New Jersey.	<i>New Jersey</i>
H. W. Seeley, Ithaca, N. Y.	<i>Central New York</i>
Sophie M. Cohen, Albany, New York.	<i>Eastern New York</i>
M. L. Rakieten, Islip, New York.	<i>New York City</i>
W. J. Cromartie, Chapel Hill, North Carolina.	<i>North Carolina</i>
A. P. McKee, Iowa City, Ia.	<i>North Central</i>
J. H. Hanks, Boston, Mass.	<i>Northeast</i>
L. D. S. Smith, Bozeman, Montana.	<i>Northwest</i>
Isaac Ruchman, Cincinnati, Ohio.	<i>Ohio</i>
Amedeo Bondi, Jr., Philadelphia, Pennsylvania.	<i>Eastern Pennsylvania</i>
A. E. de Arêa Leão, Rio de Janeiro, Brazil, South America.	<i>Rio de Janeiro</i>
Hilary Koprowski, Pearl River, N. Y.	<i>U. S. A. representative to Rio Branch</i>
A. R. Colmer, Baton Rouge, Louisiana.	<i>South Central</i>
Mildred B. Jefferies, Jacksonville, Florida.	<i>Southeastern</i>
V. T. Schubardt, Austin, Texas.	<i>Texas</i>
A. E. Feller, Charlottesville, Virginia.	<i>Virginia</i>
Margaret Pittman, Bethesda, Maryland.	<i>Washington, D. C.</i>

Council Policy Committee:

H. O. Halvorson	C. A. Stuart, <i>Chairman</i>	J. H. Bailey, <i>Secretary</i>	J. R. Porter
J. E. Blair (1956)	P. W. Wilson	Richard Donovick (1957)	K. B. Raper (1958)

Invited Members (Nonvoting):

J. R. Porter, Editor-in-Chief, THE JOURNAL OF BACTERIOLOGY; P. W. Wilson, Editor-in-Chief, BACTERIOLOGICAL REVIEWS; H. B. Woodruff, Editor-in-Chief, APPLIED MICROBIOLOGY; R. D. Housewright, Chairman of the Program Committee; A. R. Colmer, Chairman of the Division of General Bacteriology; W. J. Cromartie, Chairman of the Division of Medical Bacteriology, Immunology and Comparative Pathology; J. H. Silliker, Chairman of the Division of Agricultural and Industrial Bacteriology; T. C. Statdman, Chairman of the Division of Physiology.

IN MEMORIAM PROFESSOR DR.

A. J. KLUYVER

At the Pittsburgh meetings of the SAB, in May, 1954, it was my privilege and pleasure to introduce to the members attending the banquet Professor Albert Jan Kluyster, Honorary Member of our Society, and Professor of Microbiology at the Technological University of Delft, Holland. On previous visits to the U.S. he had acquired many personal friends in this country, and during his brief attendance at the meetings he made many more. It was one of his special traits to make people feel, even after a brief encounter, that they had established a close personal contact with him, an experience that always left a strong impression of having met a truly noble personality.

It was, I believe, the first time that Kluyster honored our national meetings with his presence. It was also to be the last; during the night of May 13-14, 1956, he suddenly died at his home of a heart attack, at the age of nearly 68 years. His death constitutes a severe loss to microbiology and to humanity in general. For his gifts were many and great, and by constant, painstaking, and energetic application he made the most of them.

The strong sense of responsibility and the keen awareness of possible consequences that characterized all his actions led to a life devoted almost exclusively to science. He worked seven days a week, from 9 a.m. till midnight and after, and this strenuous regime was indulged in till the very end, many a year elapsing with no more than a token vacation of a few days, if any. Kluyster's robust health and innately cheerful attitude seemed to respond favorably to it; only in later years did his great exertion leave obvious marks of fatigue. But at all times he exhibited a personality dominated by a profound understanding of human behavior and of the importance of the uniqueness of the individual. His gentle and compassionate attitude towards acquaintances and friends, students and associates, thus became a beautiful manifestation of the virtues of a truly humane life. Through his fine critical ability and insistence on perfection he further advanced the mental evolution of man towards a higher level.

At this place I shall not review the outstanding contributions that Kluyster and his collaborators have made to microbiology and biochemistry in the course of the 35 years during which he directed the work in his institute; contributions that have been largely responsible for creating the wide interest that general microbiology enjoys today. This seems unnecessary partly because they will be familiar to many members of the SAB, partly also because an attempt in this direction would yield little more than a mere condensation of the contents of the "A. J. Kluyster Lecture", delivered at the Cincinnati meetings of the Society in 1949, and printed under the title "The 'Delft School' and

the Rise of General Microbiology" in *Bacteriol. Revs.* (13, 161-174, 1949). A more detailed appraisal of his work up to 1939 has been published in "Chemisch Weekblad" (1939, 307-323); here are also found excellent essays on Kluyster as a pupil, colleague, and teacher. For most members of the SAB it is no doubt a handicap that these papers were written in Dutch; however, it is probable that an extensive biography in the English language will appear in the not too distant future.

Kluyster's great accomplishments have been acclaimed throughout the scientific world. As early as 1926 he was elected to membership in the Netherlands' Koninklijke Akademie van Wetenschappen, the greatest distinction that the scientists of his native country could bestow upon him; later he served for many years as President of its section for natural sciences. Interest from abroad was also shown at an early date. In 1930 he was invited to deliver a series of lectures before the University of London; these were the basis of "The Chemical Activities of Micro-Organisms", a booklet published in 1931 by the Univ. of London Press. Here one finds a masterly presentation of Kluyster's concepts of the unity in biochemistry and comparative biochemistry. This little classic has long been out of print, and some members of the SAB have occasionally suggested that our Society might reprint it. The recent publication of "The Microbe's Contribution to Biology" (Harvard University Press, 1956), containing the John M. Prather Lectures read at Harvard University in 1954, has made this superfluous; in the first two of these lectures Kluyster has given an up-to-date account of the inception and gradual developments of these ideas.

Recognition of the importance of Kluyster's work by scientists in the U.S. did not lag far behind that shown by English colleagues. In 1931 Kluyster accepted an invitation from Iowa State College to present at that institution his 'epoch-making discoveries', as Professor R. E. Buchanan had characterized them in a personal letter. Here also the first of several honorary degrees was conferred upon him; the next to the last he likewise received in the U.S., at Rutgers University in 1954.

He was a member of numerous scientific societies, and again in this respect the scientists in the U.S., by electing him as Foreign Associate of our own National Academy of Sciences, as Honorary Foreign Member of the American Academy of Arts and Sciences, and as Honorary Member of the SAB, have shown the same discrimination as those in England, where he was elected as Foreign Member of the Royal Society and as Honorary Member of the Society for General Microbiology. Denmark has honored him by the award of the "Emil Christian Hansen Medal"; in England he received the Royal Society's "Copley Medal".

Although Kluyster's own activities have now

come to an end, his influence will continue to be felt, through the efforts of his many pupils who are now scattered over the entire world. Their association with him has left them with a great heritage; they consequently know that they owe him a debt of gratitude that can best be redeemed by continuing to work and live in the spirit of the Master.

June 9th, 1956

C. B. VAN NIEL
Hopkins Marine Station of
Stanford University
Pacific Grove, Calif.

CHARLES THOM

1872-1956

Dr. Charles Thom, eminent microbiologist and president of the Society in 1940, died at his home in Port Jefferson, New York, on May 24, 1956.

Charles Thom was born in Minonk, Illinois, November 11, 1872. He received his A.B. degree from Lake Forest College in 1895 and his M.S. from the same institution in 1897. Graduate study was continued at the University of Missouri where he was awarded the Ph.D. degree in 1899. From 1902 to 1904 he worked with Professor Atkinson at Cornell, developing an interest in the fungi which led directly to his highly productive research on these organisms as they relate to agriculture, industry and public health. He joined the Department of Agriculture in 1904 where he was continuously employed until his retirement in 1942, working successively on cheese investigations, the microbiology of food and drug products, and the interrelationships between soil microorganisms and crop plants. He was best known for his pioneering researches on *Aspergillus*, *Penicillium* and other saprophytic molds. He was one of the first American scientists to recognize the biosynthetic potentials of these microorganisms, and, with J. N. Currie, demonstrated the feasibility of producing citric acid by mold fermentation. He played a major role in initiating the highly successful wartime program for the production of penicillin, and following his retirement acted as consultant to several industrial laboratories in the pharmaceutical and other related fields.

Thom was a man of very wide interests who took an active part in the affairs of many scientific and professional organizations. Additional to his offices in the S.A.B., he served as President of the Washington Academy of Sciences (1937), the Society for Industrial Microbiology (1950), and The Mycological Society of America (1953). He was for many years a member of the National Academy of Sciences.

NOMINATIONS FOR OFFICERS OF THE SOCIETY

The nominating committee consisting of Drs. H. A. Barker, S. E. Luria, J. M. Sherman (chairman), E. H. Spaulding and O. B. Williams have presented the following candidates for the offices of the Society for 1957. Biographical data of the nominees are adapted from "American Men of Science".

For President

Dr. Perry W. Wilson, University of Wisconsin, Madison, Wis. Born Bonanza, Ark., Nov. 25, 1902. B.S. Wisconsin, 1928, M.S. 1929, Ph.D. (bacter. biochem.) 1932. Research assoc. agr. bacter. Wisconsin 1932-1934, asst. prof, 1934-1938, assoc. prof, 1938-1943, prof 1943-. Guggenheim Mem. Foundation fel, Cambridge and Biochem. Inst, Helsinki, 1936-1937. Ed. Bact. Reviews 1952-. Consultant, Fed. Security Admin; Nat. Acad; S.A.B. (Vice-President 56), Chem Soc; Soc. Biol. Chem; Soc. Exp. Biol; Biometric Soc; Biochem. Soc. Eng; Soc. Gen. Microbiol. Eng. Isotopes in biological nitrogen fixation; enzyme systems in biological nitrogen fixation; isotopes in study of citric acid fermentation.

For Vice-President

Dr. Harry Eagle, National Institutes of Health, Bethesda, Md., Born New York, N. Y., July 13, 1905. A.B. Hopkins '23;—M.D. 27, hon. M.S. Yale '48. Intern, Hopkins Hospital 27-28, research fellow sch. med. Hopkins 28-29, asst. 29-30, instr. 30-32; research fellow Harvard Med. Sch. 32-33; assoc. bacter. sch. med. Pennsylvania, 33-35, assoc. prof. 35-36; passed asst. surgeon, U.S.P.H.S. 36-43; surgeon 43-45; sr. surgeon 45-47 Med. Dir. 47-, Soc. dir. research br: Nat. Cancer Inst. 47-49, Chief, Exp. Therapeutics, Microbiol. Inst.; Nat. Institutes Health 49-. Lectr. sch. med. Hopkins 36-47; dir. venereal disease research lab, Hopkins and U.S.P.H.S., 36-46. Trustee microbiol. found. Rutgers. Memb. microbiol study sect. U.S.P.H.S.; sub cmt. venereal diseases, N.R.C. Lilly Award, 1936. Alvarenga prize, Col. Physicians Phila. 36. With Office Sci Research and Develop, 44. S.A.B.; Soc. Exp. Path.; Soc. Clin. Invest; Amer. Physicians; Soc. Pharmacol; Assn. Immunol. Immuno-chemistry; antigen-antibody reaction; serodiagnosis of syphilis; blood coagulation; chemotherapy of syphilis; trypanosomiasis and tropical diseases; detoxification of metal poisoning; mode of action of antibiotics; tissue culture.

Dr. Colin M. MacLeod, New York University College of Medicine, New York. Born Nova Scotia Can. Jan 28, 1909. M.D. McGill 1932. Came to U.S. 34, citizen, 41. Interne Montreal Gen. Hospital 32-34; resident med. Rockefeller Institute

Hosp, 37-38; asst. to assoc. in med. Rockefeller Inst. Med. Res. 34-41; Professor, microbiol. N.Y.U. Col. Med. 41-. Dir. Com. on Pneumonia, Army Epidemiol Bd. 41-46; chief prev. med. sect. Com. Med. Res. O.S.R.D. 44-46; pres. Armed Forces Epidemiol. Bd. 47-53; mem. panel mil and field med, Com. Med. Sci. Nat. Mil. Establishment 48-52; adv. panel on Med. scis to ass. Sec. Defence, 52-. Member: Nat. Acad. Sci; Am. Epidemiol Soc. Ass. Immunol (pres. 51-52); S.A.B.; Am. Physicians; Soc. Clin. Invest.; N.Y. Acad. Med.; Harvey Soc. (pres. 55, 56). Pneumonia; Rheumatic Fever, Immunity.

Dr. David T. Smith, Duke Hospital, Durham, N. C., born Anderson County, S. C. Oct. 1, '98. A. B. Furman, 18, hon D. Litt. '49 M. D. Hopkins '22. Interne, Hopkins 22-23; bacter and path, Rockefeller Inst, 23-24; bacteriologist and pathologist, N. Y. State Hosp. for Incipient Tuberc, Ray Brook, '25-'30; assoc prof. med, Sch. Med, Duke 30-Prof Bact '32-. Lectr, Trudeau Post-Grad Sch. for Tuberc. 24-30. Consultant infectious diseases, U.S. Army Secy, War 41-45. S.A.T.C. 18. Assn Path and Bact; Tuberc assn; S.A.B.; Asn. Anat; Asn Thoracic Surg; An. Physicians. Pigmented cells and tumors; diet and experimental tuberculosis; chronic non tuberculous infection of the lungs; fusospirochetal diseases; etiology of black-tongue and pellagra, mycotic infection of lungs.

Secretary

Dr. Edwin Michael Foster, University of Wisconsin. Born Alba, Texas Jan 1, 1917. B.A. N. Texas State Teachers Col, 36, M.A. 37; Alumni Research Found. Scholar Wisconsin 37-38, Univ. fellow 38-39, PhD (bacter) 40. Instr. Bacter. Wisconsin 40-41; Texas 41-42; asst. prof. Wisconsin 45-46, assoc. prof, 46-52, Prof. 52-. With Joint Research and Develop. Bd, 47. Sanit C, 42-43, C.W.S. 42-45, capt. S.A.B. Bacteriology of cheese; microbiology of meat products; silage; the rumen and refrigerated foods.

Treasurer

Dr. John Hays Bailey, Sterling-Winthrop Research Institute, Rensselaer, N.Y. Born Chicago, Ill. May 3, 1900. B.S. Chicago, 24. Ph.D., 1928; D.P.H. Michigan, 1938. Asst. anat. Chicago, 1926-1928; fel. Nelson Morris Inst. 1928-1929; Huesman Fellow, James Whitcomb Riley Hospital and member dept. pediat, sch. med. Indiana, 1929-1932; research Municipal Contagious Disease Hosp. Chicago, 1932-1935; sr. bacter. Illinois State Dept. Health, 1935-1938; asst. prof. bacter. and director division of bacter. dept. prev. med. pub. health and bacter. sch. med. Loyola University (Chicago) 1938-1941; research bacter. Winthrop Chem. Co, 1942-1945; Chief bacter. Sterling-Winthrop Res. Inst. 1945-. Civilian O.S.R.D. A.A.; Soc. Gen. Microbiol, England; Soc. Bact. (Secre-

tary-Treasurer 1953-1956); fel. Institute Med. Chicago. Antibody formation; types of streptococci in normal and diseased children; mode of action of antibiotics; antibiotics of plant origin; penicillin; resistance to antibiotics.

Councilor-at-Large

Dr. I. C. Gunsalus, University of Illinois. Born Sully Co. S. Dak. June 29, 1912. B.S. Cornell 35, M.S. 37, Ph.D. (bacter.) 40 Asst. bacter. Cornell 35-37, instr. 37-40, asst. prof 40-3 assoc. prof 43-46, prof. 46-47, Indiana 47-50, Illinois 50-Biochem, 55-. Civilian with War research service, U.S.N. 44; atomic Energy Com. 46. AAAS; S.A.B.; Chem. Soc; Soc. Biol. Chem; Soc. Gen. Microl. Physiology and biochemistry of microbial processes; enzymatic patterns, function of essential metabolites; site and mechanism of action of pyridoxin and lipoic acid; induction of diverse pathways of glycolysis and organic acid oxidation.

Dr. E. R. Hitchner, University of Maine. Born Woodstown, N.J. Mar. 24, 1891. B.S. Penn. State Col. 15, M.S. 16, PhD. (bacter.) Wisconsin 31. Instr. bacter, Pa. State Col. 16-17; N.Y. State Sch. Agr. 17-18; chemist E.I. du Pont de Nemours and Co. 18-21; instr. bacter. Delaware 21-22; asst. prof Maine 22-24, assoc. prof 27-29, prof 32 head of dept 36-. S.A.B. Inst. Food Technol. Physiology of bacteria; fish diseases; pullorum disease control.

Dr. R. E. Hungate, University of California, Davis, Cal. Born Cheney, Wash. March 2, 1906. A.B. Stanford 29, Ph.D. (biol) 35. Acting instr. biol. Stanford 30-33, instr. 33-35; instr. zool. Texas 35-38, asst. prof, 38-43, assoc prof and research assoc. biochemist, 43-45; assoc prof bacter, State Col. Washington 45-49, Prof 49-56; prof and head of dept. Univ. Cal. at Davis 56-. Guggenheim fellow 50; Subcomt. on bloat, NRC 54. AAAS; Soc. Zool; S.A.B.; Soc. Protozool. Cohesion of water; carbohydrate and nitrogen nutrition of termites; wood decomposition; biological decomposition of cellulose; nutrition of ruminant protozoa; biology and biochemistry of ruminant cellulose bacteria; growth of mammary cancers in eggs; rates of natural microbial processes; microbiology of acute indigestion and bloat in ruminants; microbiology of sludge.

Dr. W. F. Verway, Sharpe and Dohme Inc., West Point, Pa. Born Watkill, N.Y. July 14, 1913. B.S. Rutgers 34, D. Sc. (bacter) Hopkins 37. Bacter technician Sharpe and Dohme Inc. 36; asst. bacter. Col. Med. N.Y. Univ. 37-38, instr. 38-40 Director Bacter. Research, Sharpe and Dohme, Inc. 40-51, Sharpe and Dohme Div. Merck and Co., Inc. 51-. AAAS; S.A.B.; Harvey Soc., Soc. Exp. Biol; APHA; N.Y. Acad. Sci. Development of immunizing agents against bacterial infectious diseases; development of anti-bacterial chemotherapeutic agents.

ELI LILLY AWARD

Nominations for the 1957 Eli Lilly Research Award in Bacteriology and Immunology are invited. These should be sent to Dr. Alan W. Bernheimer, New York University College of Medicine, New York 16, N. Y., Chairman of the Eli Lilly Award Nominating Committee to reach him not later than January 15, 1957. No reprints or manuscripts should be offered. Four copies of all material should be submitted and must include the following:

1. Month, day and year of birth.
2. Curriculum.
3. List of Publications.
4. Specific reference to the research upon which the nomination is based.
5. Supporting letters, if possible.

To be eligible for the Award the nominee shall be less than 35 years of age on April 30, 1957 (birth date later than April 30, 1922), and shall have performed outstanding research in bacteriology or its related fields.

For the purpose of this award, outstanding research is understood to be that which is of unusual merit in the younger age group. The research is not to be judged in comparison with the work of more mature and experienced workers. Neither the nominee nor nominator need be a member of the S.A.B.

SEVENTH INTERNATIONAL CONGRESS OF MICROBIOLOGY

An official invitation has come from Sweden to hold the Seventh International Congress of Microbiology in Stockholm in August 1958. The Swedish microbiologists make only one stipulation, namely, that the membership of the congress be limited to one thousand. A majority of the Executive Committee of the International Association of Microbiological Societies have declared themselves in favor of accepting this invitation.

PRESIDENT'S FELLOWSHIPS

Six President's Fellowships for 1956 have been awarded on recommendation of the President's Fellowship Committee. The recipients of these Fellowships, made possible by the generosity of Difco Laboratories, are:

Dr. Julius Marmur of the Institute of Microbiology, Rutgers University, to work with Dr. R. Roberts in the Department of Terrestrial Magnetism, Carnegie Institution, Washington, D. C.

Mr. Lyman Abbott Magee, Louisiana State University, to learn techniques concerned with studies of enzymes and isotopes, to work with Dr. Wilson of the University of Wisconsin on techniques concerned with studies of enzymes and isotopes.

Dr. Wacław Szybalski of the Institute of Micro-

biology, Rutgers University, to attend a summer course and discussion group conducted by Professor Pontecorvo in microbial genetics.

Mr. Earl Gardner, Jr., University of Texas, to work with Dr. Braun at Rutgers University on the detection of antigenic variants.

Mr. Jacob D. Duerksen, University of Michigan, to study induced enzyme synthesis with Dr. Spiegelman at the University of Illinois.

Dr. Howard Gest, Western Reserve University, to work in microbial genetics with Dr. Horowitz at the California Institute of Technology.

Applications and information concerning President's Fellowships should be made to any member of the President's Fellowship Committee, the members of which are Dr. Robert L. Starkey, Rutgers University, New Brunswick, N. J., Dr. Charles A. Evans, University of Washington School of Medicine, Seattle, Wash. and Dr. I. C. Gunsalus, University of Illinois, Urbana, Ill.

REVISION OF THE CONSTITUTION

The voting by mail by the members on the proposed changes in the constitution of the Society to provide for the offices of Secretary and Treasurer has resulted in the acceptance of the changes. Accordingly, the ballots for officers of the Society for 1957 will contain nominations for President, Vice-president, Secretary, Treasurer and Councilors-at-Large.

A total of 2829 ballots were received, of which 2799 were affirmative and 30 negative.

THE AMERICAN ACADEMY OF MICROBIOLOGY, INC.

The Society, by the recent mail vote, has approved the establishment of The American Academy of Microbiology, Inc. A total of 2139 ballots were received, of which 289 were against and 1846 for establishing the Academy. There were 4 blank ballots.

The organizing Board of Governors held their first meeting on May 3, 1956 at Houston. The Governors elected the following temporary officers to serve until the Academy can legally elect permanent officers and governors: Chairman, H. Orin Halvorson; Vice Chairman, Riley D. Housewright; Secretary-Treasurer, John Hays Bailey; Executive Secretary, G. I. Wallace.

REFRESHER TRAINING COURSES

The Laboratory Branch of the Communicable Disease Center, U.S.P.H.S. has scheduled a series of Refresher Training Courses to be offered during the period September 1956-June 1957. Information and application forms should be requested from Laboratory Training Services, Communicable Disease Center, U. S. Public Health Service, P. O. Box 185, Chamblee, Ga.

Schedule of courses

Sept. 10-21	Laboratory Methods in the Diagnosis of Bacterial Diseases Part 1. General Bacteriology
Sept. 10-Oct. 5	Laboratory Methods in the Diagnosis of Parasitic Diseases Part 1. Intestinal Parasites
Sept. 24-Oct. 5	Laboratory Methods in the Diagnosis of Bacterial Diseases Part 2. General Bacteriology
Oct. 8-19	Laboratory Methods in the Diagnosis of Bacterial Diseases, Enteric Bacteriology
Oct. 8-26	Laboratory Methods in the Diagnosis of Parasitic Diseases Part 2. Blood Parasites
Oct. 15-26	Laboratory Methods in the Diagnosis of Viral and Rickettsial Diseases
Oct. 29-Nov. 2	Laboratory Methods in the Diagnosis of Rabies
Jan. 7-18	Laboratory Methods in Medical Mycology Part 1. Cutaneous Pathogenic Fungi
Jan. 21-Feb. 1	Laboratory Methods in Medical Mycology Part 2. Subcutaneous & Systemic Fungi. (completion of preceding course or equivalent education or experience is a prerequisite)
Jan. 21-Feb. 1	Laboratory Methods in the Diagnosis of Tuberculosis
Feb. 4-15	Laboratory Methods in the Study of Pulmonary Mycoses
Feb. 25-Mar. 1	Laboratory Diagnostic Methods in Veterinary Mycology
Mar. 11-22	Laboratory Methods in the Diagnosis of Viral and Rickettsial Diseases
Mar. 11-22	Serologic Methods in the Diagnosis of Parasitic and Mycotic Infections
Mar. 25-29	Laboratory Methods in the Diagnosis of Rabies
*	Laboratory Methods in the Diagnosis of Malaria
*	Virus Isolation and Identification Techniques
*	Typing of <i>Corynebacterium diphtheriae</i>
*	Special Problems in Enteric Bacteriology
*	Phage Typing of <i>Salmonella typhosa</i>
*	Laboratory Methods in the Diagnosis of Leptospirosis
*	Serologic Differentiation of Streptococci

* Courses given by special arrangement only.

THE 1956 MEETING

The fifty-sixth Annual Meeting of the Society was held at the Shamrock-Hilton Hotel, Houston, Texas, April 29-May 3, 1956. The efforts of the Local Committee to make this meeting successful and memorable for the some 1400 registrants were appreciated. Probably a record for attendance at the President's Reception and Banquet was established this year when over 1100 people were transported to a ranch some distance from Houston for these functions.

Council Meeting

The first meeting of the Council was held Sunday April 29th. A quorum being present, President Stuart called for reports of committees.

1. Report of the Committee of Twenty. Dr. Halvorson reported that a Task Force of the Committee of Twenty had set up a corporation, The American Academy of Microbiology, Inc., as instructed by the Council at the 1955 meeting, and had drawn up a charter and bylaws for its use. The Committee of Twenty, after making various changes in these instruments, had submitted the proposed charter and bylaws to the Council for a vote by mail. The Council had approved and ordered the approval of the Academy Charter and bylaws put to a mail vote of the entire membership. The results of this vote were 1846 for establishing The American Academy of Microbiology, Inc., and 289 against. Accordingly, a meeting of the Board of Governors of the Academy had been called for the afternoon of May 3rd for the election of officers and other necessary business.

2. Report of the President's Fellowships Committee. Dr. Starkey reported that there had been no applications received from eligible applicants for these fellowships during 1955. The original grant is still available for distribution to young members of the Society for travel and maintenance to laboratories to learn new techniques or consult with a worker who might help them in their problem. The Council members were urged to remind those having graduate students of the availability of these fellowships.

3. Committee on Materials for Visual Instruction in Microbiology. The Secretary read the report prepared by the chairman. It was stated that interest in the work of the committee continues to be gratifying as shown by the demand for motion pictures, 2 x 2 inch lantern slides and photographic prints. The committee had a cash balance of \$278.65. Motion that the committee be granted a budget of \$200 for 1956, made, seconded and carried.

4. Report of Committee on Establishment of a Committee on Taxonomy. Dr. Raper read the following report:

I. The Society of American Bacteriologists should interest itself in problems relating to tax-

onomy. It is the unanimous opinion of the Advisory Committee that the Council should appoint a standing Committee on Taxonomy to concern itself with this matter in its broadest implications.

II. The Committee should consist of five members of the S.A.B. whose terms of office shall be for five years, except for the initial appointees, the length of whose terms shall range from one to five years as determined by lot. After the establishment of the Committee no member shall be re-elected until after the lapse of at least one year, except for those two members whose terms of office expire after the first and second years.

III. This Committee should be instructed to coordinate its efforts with those of the Trustees of the Bergey Manual, and also with other groups having similar interests, e.g., the American Type Culture Collection.

IV. The function of the Committee on Taxonomy should be advisory since the description and identification of microorganisms remain the responsibility of individual investigators.

V. This Committee should be empowered to establish subcommittees to study the various taxonomic groups for the purpose of:

- a) Promoting scholarly research on the taxonomy and interrelationships of particular groups of microorganisms.
- b) Facilitating the exchange of information and cultures, as well as publication of relevant information.

It is the opinion of the Advisory Committee on Taxonomy that a Subcommittee on Taxonomy of the Actinomycetes should be appointed as soon as possible, and that other subcommittees be appointed as the need arises.

Appointments to the subcommittees should be made by the President of the Society on recommendation of the Committee on Taxonomy.

VI. The Advisory Committee should be dissolved following action on the above recommendation.

Respectfully submitted,
R. G. BENEDICT
D. GOTTLIEB
C. F. NIVEN, JR.
R. L. STARKEY
K. B. RAPER, *Chairman*
Ex officio
DEAN R. E. BUCHANAN
DR. H. O. HALVORSON
DR. J. R. PORTER

Moved and seconded that the report be accepted. Motion carried.

5. The Society has received a request from Dr. Buchanan for a grant of \$1000 for secretarial aid in the publication of the Revised International Code of Nomenclature of the Bacteria and Viruses. The Publications Board and the Council Policy

Committee both recommended that Dr. Buchanan's request be granted. It was moved and seconded that the Society grant Dr. Buchanan's request. Carried.

6. Committee on Selection of Meeting Places. The committee recommended that the Society hold the 1959 meeting in St. Louis, Mo., the 1960 meeting in Philadelphia and the 1961 meeting in Chicago. The chairman, Dr. Wyss, pointed out that both Chicago and Philadelphia had asked for the 1960 meeting. The committee recommended Philadelphia for that year because no invitation from the east coast had been received for five years, resulting in all the meetings being in the midwest or southwest from 1956 on. Moved, made and seconded that the 1959 meeting be held in St. Louis, the 1960 in Philadelphia and the 1961 in Chicago. Carried.

7. The Secretary reported that his report had been published in the April News Letter and requested that the Council approve the Society budget as presented there. Motion made and seconded that the budget be approved. Carried.

8. The Council discussed the fact that many members received their copy of Bacteriological Proceedings only a few days before the meeting. The publication schedule called for mailing April 13 but this was delayed until April 17th. Much of the delay occurs in the post offices both at the receiving and delivering end. There is nothing the Society can do about the handling of the mail but it can see that the Proceedings are manufactured to allow for slow mail delivery. During the discussion it was also brought out that the Society's other publications are being delayed. Some of this is due to the increase in color used in the advertising section. A motion was made and seconded that the Council go on record of being quite dissatisfied with the way Bacteriological Proceedings has been handled this year. The motion was carried.

9. The proposed Exhibits Management Service contract offered the Society by Williams and Wilkins Company was discussed. Dr. Robert P. Williams, Executive Vice Chairman of the Local Committee was invited to tell the Council how the Local Committee believed the Exhibits Management Service had worked out in the case of the 1956 meeting. Dr. Williams stated the Local Committee was very happy with the arrangements made by them with Williams and Wilkins Co. He believes the Local Committee will show a larger net profit on the exhibits this year than any other with the exception of the 1955 meeting. It was decided that the Society would take no action this year on the proposed Exhibits Management Service contract, leaving Local Branches free to avail themselves, as did the Texas Branch, of this service should they so desire.

10. The C.P.C. recommended that the Council recommend to the annual business meeting that

the office of Secretary-Treasurer be separated into two offices, Secretary and Treasurer. It was pointed out that the tasks of the office of Secretary-Treasurer are overwhelming for one person to handle. The creation of the two offices would postpone the time when it will be necessary for the Society to hire a full time Executive Secretary. It would be easier to find people who could give of their time for each office than it is where the two are combined. Moved and seconded that the office of Secretary-Treasurer be separated into the office of Secretary and of Treasurer. Motion carried. As a change in the Constitution is involved, the question was put on the agenda of the annual business meeting, where it must be passed and finally approved by a mail ballot of the membership.

11. The Council created a Committee on Finance, composed of the Past President, President, Vice President, the Secretary-Treasurer and the Editor of the Journal of Bacteriology.

12. An *ad hoc* Committee on Committees was appointed consisting of Drs. Donovan, Halvorson and Porter.

13. The inviting of foreign authorities to take part in symposia was discussed. At the present time the Society does not have funds available for this purpose. The problem had been discussed informally with Dr. Reid of ONR who indicated that ONR would be happy to cooperate in this matter but that further discussion was advisable. It was moved and seconded that the Council go on record as favoring an arrangement whereby ONR and the Society would cooperate in bringing foreign scientists to the annual meeting. Carried.

14. The status of the Public Health section of the Medical Bacteriology, Immunology and Comparative Pathology Division, established on a trial basis at the 1955 meeting, was brought up by Miss Cope. It was pointed out that this section had 21 papers. Dr. Wyss pointed out that the Agriculture and Industrial Division had 29, General 89, Medical 121 and Physiology 76. The chairman of the Medical Division had followed the requests of authors in grouping the papers of Public Health interest into sessions. The creation of another Division would add one more person to the Program Committee, with the result that no one chairman would have to handle more than approximately 75 papers in drawing up the program. It was moved and seconded that a committee composed of the chairman and vice-chairman of the Program Committee and the chairmen of the last four Program Committees investigate the situation regarding the Divisions and make recommendations to the Council. The motion was carried.

The meeting adjourned at 5:15 P.M. until 2:00 P.M. Tuesday, May 1st.

The second meeting of the Council was held at 2:00 P.M. Tuesday May 1, 1956 at the Shamrock

Hotel at which the following business was transacted.

15. A petition, signed by ten members of the Society residing in San Juan, Puerto Rico, for the establishing of a Local Branch, the San Juan Branch of the Society of American Bacteriologists was presented. It was moved and seconded that this branch be established. Motion carried.

16. Dr. Pelczar, reporting for the Committee on Bacteriological Technique, stated that the committee had completely revised, under the Editorship of Dr. H. J. Conn, the Manual for the Pure Culture Study of Bacteria, and expected to have it published by the end of the year if not by September 1, 1956. The title of the new edition of the Manual would be Manual of Bacteriological Methods.

17. The *ad hoc* Committee on Committees appointed at the first Council Meeting presented the following report, which was accepted:

1. Each chairman of appointed committees or a designated representative, be required to report to the Council at the National Meeting.
2. C.P.C. be charged to review with the President each year the usefulness of each committee to the Society.
3. To ensure continuity of committee functions the five past presidents of the Society should be requested to attend Council Meetings as *ex officio* members.
4. *Ad hoc* committees appointed at the first Council Meeting by the President should make every effort to report to the second Council Meeting during the National Meeting.
5. The C.P.C. should meet with the President as soon as possible after the first of each year to assist him in appointing committees, as well as drawing up the agenda for the National Meeting. Also the C.P.C. should meet with the President after the last Council Meeting during the National Meeting to review the work of the committees.

18. The Secretary read the following report from the Interim Committee on Certification:

The problem of the establishment of certification boards properly belongs to the American Academy of Microbiology when it comes into existence.

Therefore, we recommend that the Interim Committee on Certification be disbanded as a committee of the S.A.B.

EARLE H. SPAULDING, *Chairman*

Moved and seconded that the Interim Committee on Certification be dissolved. Carried.

19. The Committee on Divisions of the Society, appointed at the first meeting, presented the following report, which was accepted.

I The committee recommends that we con-

tinue the Public Health group for another two years on a provisional basis but that to encourage progress toward a divisional status:

A. The Program Chairman make an *ad hoc* appointment from the Public Health group of a representative to serve with the Program Committee in evaluating public health papers for acceptance on the program and editing and scheduling these papers.

B. The papers that are accepted and scheduled in the Public Health session be published in the proceedings under a designation separate from the four Divisions. The committee believes that if the two additional years of trial show that the Public Health group can sustain divisional status the Society should and would accept the necessary constitutional changes to set up a new division.

II The General Medical and Physiology Divisions are thriving and require no attention at this time.

III The Agricultural and Industrial Division has failed to maintain its relative position among our divisions and requires attention from the whole Society. However, since the Division has been actively seeking the solutions to its problems, we recommend that they be encouraged in this effort but that after two years the problem be restudied.

L. S. McCLUNG
W. NUNGESTER
J. R. PORTER
JOHN Y. SUGG
RILEY HOUSEWRIGHT
ORVILLE WYSS

20. The Publications Board recommended to the Council that the name of the *News Letter* be changed to Bacteriological News. It was the feeling of the Publications Board that this publication could grow into something like *Chemical and Engineering News* put out by the American Chemical Society. A motion to change the name of the *News Letter* to Bacteriological News was made, seconded and carried.

The meeting adjourned at 2:40 P.M.

Business Meeting

The Annual Meeting of the Society was held in the Emerald Room of the Shamrock Hotel. The meeting was called to order by President Stuart at 10:55 A.M. The first committee report was that of the Committee of Twenty, presented by Dr. Halvorson. See report of the Council meeting for this report.

2. The Archives Committee requested that members send pictures, information regarding the

Society and its members to the chairman, Dr. L. S. McClung. The committee now has adequate space for preserving material received and all types are welcome.

3. S.A.B. Committee Advisory to the Chemical Corps. (Dr. Dack). Last year the Chemical Corps had asked the Society to appoint an advisory committee to the chief of the Chemical Corps. The committee had been appointed by Dr. Halvorson but because of the time required to get security clearance of the members only one meeting had been held. The Chemical Corps had requested that the original committee serve for three years after which one-third of the committee would be replaced each year. The Chemical Corps felt that the committee would be of great value to the Corps, particularly because most of the committee have had no previous connection with Fort Detrick.

4. Committee on Bacteriological Technique. The new Manual prepared by the committee is now in manuscript form and consists of ten chapters. It is hoped that the new manual will be published in the Fall at a cost of less than \$5.00. This will probably mean a spiral bound manual.

5. Committee on the Establishment of a Committee on Taxonomy. See report of Council Meeting for this report.

6. President's Fellowship Committee. Dr. Starkey, chairman, reported that four applications have been received, one of which was rejected because the applicant was over the age limit. The three other applications were being considered. Dr. Starkey pointed out that there were funds available and asked that these fellowships be called to the attention of those in need of the assistance these offer. Applications may be made to any member of the committee, Dr. C. A. Evans, School of Medicine, University of Washington, Dr. I. C. Gunsalus, University of Illinois or Dr. R. L. Starkey, Rutgers University.

7. The Secretary reported on the Council Meeting.

8. Dr. Halvorson moved that the Constitution be amended to provide for the office of Secretary and of Treasurer. The meeting voted to dispense with the reading of the required changes in the Constitution. Dr. Halvorson's motion was seconded and the question carried unanimously. The question will be now submitted to the entire membership for a mail vote.

9. Dr. Hanks moved that the meeting amend the bylaws to conform with the constitution, the amended bylaws to go into effect when and if the membership voted to amend the constitution. The motion was seconded and passed unanimously.

10. Resolutions Committee presented the following:

Mr. President, the Committee on Resolutions presents the following:

1. WHEREAS, during the past year certain mem-

bers of our Society have become deceased, and

WHEREAS, the personal counsel, example and inspiration from these individuals is remembered with affection and gratitude, and

WHEREAS, the Society acknowledges the contributions those persons made by teaching, investigation and leadership in Bacteriology;

BE IT RESOLVED, therefore, that the Society of American Bacteriologists in its annual meeting of 1956 should pay tribute to its deceased members and should record its indebtedness to them in the minutes of this meeting.

2. WHEREAS, an effective scientific program in the Society of American Bacteriologists depends in large part upon the unselfish service of our officers and of members who serve on our various committees and boards, and

WHEREAS, these activities are conducted ably and continuously in our behalf;

BE IT RESOLVED, therefore, that we should express our gratitude to members of these important elements in our organization. Particularly we wish to thank Dr. Orville Wyss for the loyal and efficient effort he has put forth as Chairman of the Program Committee.

3. WHEREAS, all members of this Society who have served with local committees on arrangements for our annual meeting are aware of the problems involved and the tremendous effort necessary, and

WHEREAS, these problems must have been greatly magnified this year because the members of the Texas Branch are so widely separated geographically, and

WHEREAS, in spite of these difficulties the local committees have provided us with unexcelled facilities, including an efficient registration system and spacious, comfortable and well-managed rooms for sessions, symposia and meals or meetings of special groups;

BE IT RESOLVED, therefore, that the Society should now express its sincere gratitude to the Texas Branch, its committees and to other individuals concerned for having made possible such an enjoyable and fruitful meeting.

JOHN H. HANKS
G. M. DACK
E. M. FOSTER

The Secretary was asked about the Society's income tax status. He replied that the Internal Revenue Service had not as yet given its final ruling on the appeal which had been filed with the

Service over a year ago. The Society's attorney is involved in a lengthy anti-trust law trial and has therefore been unable to prosecute our interests.

A member asked why the Journal was two months late. Dr. Porter explained that this situation exists in many journals and arises in a large measure from the use of color in the advertising section. The printers cannot foretell how much color work will be required for a given issue and hence, fall behind when this unexpected demand is placed upon the presses. The editorial part of the publication schedule is up to date; Waverly Press is doing all it can to overcome the difficulty and hopes to get back on schedule this year.

The meeting adjourned at 11:45 A.M.

U.S.P.H.S. GRANTS

The Public Health Service has announced a new procedure to expedite the processing of research grant applications for those requests which do not exceed \$2000 plus indirect costs and which do not ask support for more than one year. Such applications will be accepted and processed on receipt and are not therefore subject to the usual deadlines for submission prior to review.

Council recommendations can be expected on these applications within 1-4 months from the time of submission. These procedures do not apply for requests for supplements to existing grants.

Address all applications as well as requests for forms or additional information to the Division of Research Grants, National Institutes of Health, Bethesda 14, Maryland.

ROUND TABLE ON YEASTS

On Tuesday evening (May 1) at the request of Drs. Moshe Shifrine, (Univ. Cal.) Arnold Demain (Merck) and Herman Phaff (Univ. Cal., who was unable to be present) the writer acted as Chairman of a Round Table Discussion Group on Yeasts. Sixteen people attended the meeting, representing researchers from Illinois Institute of Technology, University of California, Michigan State University, Southern Illinois University, U. S. Department of Agriculture, North Carolina State College, and two commercial yeast companies.

A spirited and provocative discussion kept everyone's interest for the two-hour period on a number of subjects, such as: yeast taxonomy, yeast genetics, pectic enzymes from yeasts, yeasts from maple syrup, sedimentation tests for yeasts, parasitism of yeasts by virus-like organisms, carbohydrates isolated from yeasts, and, an interesting species of yeasts from rabbits.

Also, Dr. Shifrine demonstrated his unique punch-card method for handling taxonomic data for yeast classification. This workable procedure should prove most helpful for people working with yeasts, particularly those concerned with taxonomy.

The group attending appeared to be most interested in having similar meetings at future SAB Meetings and thought it would be desirable to have them scheduled in advance so as to be listed in the program.

JOHN L. ETCELLS

ROUNDTABLE DISCUSSION ON ANALYTICAL MICROBIOLOGY

The Committee on Analytical Microbiology held the second annual roundtable discussion during the General Meeting held in Houston. Roger C. Kersey convened the session in the absence of the committee chairman, John J. Gavin.

The technical session covered the following points.

1. Improvements in the general characteristics and sensitivity of antibiotic and growth factor assays. Special attention was given to the factors causing variable responses in microbiological assay procedures; i.e. diffusion rates in agar, turbidimetric measurements, influence of media, etc.
2. Extraction procedures or pretreatment of samples to remove interfering substances.
3. Correlation between microbiological and chemical assays.
4. Blood and tissue level determination of antibiotics and growth factors.
5. Application and use of statistical designs in microbiological assay procedures.

The second part of the discussion was devoted to plans for the 1957 General Meeting. The committee was enlarged in order to represent more of the membership. The committee members and their fields of interest are:

William Alegnani, Parke, Davis & Co.—antiseptic and disinfectant testing. William Elias, Wyeth Laboratories—microbiological assay of antibiotics in tissues and body fluids. Roger Kersey, Chas. Pfizer & Co.—antibiotic assay of pharmaceuticals and animal feedstuffs. Edwin Parmalee, Smith, Kline and French Laboratories—growth factor assays. Helen Skeggs, Sharp & Dohme Division, Merck & Co.—growth factor assays. Jean Snyder, The Upjohn Co.—antibiotic assays. John Gavin, Food Research Laboratories—chairman.

The committee would welcome participation in future programs by all interested persons. Information can be obtained by contacting any member of the committee.

DIVISION OF BIOLOGY AND AGRICULTURE NATIONAL RESEARCH COUNCIL (BA-NRC)

Last year's report (N-L, April, 1955) listed the many functions of the Division (BA-NRC) and cited some specific activities of a few representative committees. In this, my final report, I plan to use the available space to concentrate on one—that dealing with education. Many members of

the *Society* have expressed the view that bacteriology is not keeping up with the other sciences in attracting the superior students; others are concerned with college curricula and the like. Often such views are preliminary to the suggestion that the *Society* should be doing something about it. Just how effective a society of our size can be in this field is open to question, but it should be recorded that the officers and the Council of the *Society* have not been wholly inactive on these matters. In addition to our own activities (Committee of Education, the Career booklet) we are co-operating in a certain sense with other biologists through a committee on the BA-NRC Division. The philosophy of that Committee is that although the individual societies may be too small to be effective in this field, a joint committee might accomplish worthwhile objectives for biology as a whole and by this means for the separate disciplines.

Within the Division there is an advisory group called the Biology Council (see N-L, August, 1954). One of its operating committees is that on Educational Policies. It is described in the minutes of the May 13-14, 1955 meeting of the Division as: "*Committee on Educational Policies*. Originating under NSF support, this committee is now functioning under a 3-year Rockefeller grant, and is the concrete expression of the philosophy entering into all discussions and considerations of the Division, that educational inadequacies are at the bottom of all our problems, whether they concern research grants, publication processes, bad writing, inarticulate lecturing, wastage of money on ill-directed programming, or what not. The committee concerns itself not only with what the situation is, but with what can be done about it. It recognized that biology is moving ahead, but that there will be insufficient numbers of teachers to match the tidal wave of students; it seeks ways therefore, to make the teacher more effective, to retain the direct contact of student and teacher, saving the mechanical aids for less important tasks."

Each member of the Committee heads a subcommittee that will deal with specific areas. These include: (1) Pre-College education; (2) Teacher recruitment and education; (3) College education; (4) Graduate and Professional education; (5) Biology in the medical sciences; (6) Applied biology, technician training and job analysis; (7) Publications; (8) Adult education. Among the projects are: (1) Preparation of an analytical summary of the voluminous scattered literature on biological education; (2) publication of the abstracts of the more significant books, papers, and conference reports on biological education; (3) consultation with biological societies to improve communication among those interested in a given education problem; (4) compilation of a file on provocative experiments in biological education for the benefit

of education institutes, societies, foundations, industry and others; (5) serve as an advisory board to foundations on projects in biological education; (6) sponsorship of conferences, e.g., summer institutes.

Specific activities of the Committees to further these objectives would include participation of members in regional conferences on biological education and the sponsoring of source books of laboratory and field studies for college courses in the biological science. Many of our SAB members have been requested to contribute to the source-books that deal with microbiology and mycology.

Obviously, this summary can only sketch broadly the many activities of this *Committee on Educational Policies*. Perhaps this brief resumé, however, will reassure those that had assumed nothing was being done in this area and will encourage participation by those who would like to help. For example, aid given to the *Source Books* project will be a real contribution from individuals. Whether these activities will be effective in solving the complicated problems facing the schools and societies is a matter of guess and opinion, but at least groups are active with which the *Society* as an organization or a member as a individual can collaborate. To end on a note of optimism: on the assumption that misery *does* love company, my experience as your representative to the BA-NRC and as a member of the Biology Council has convinced me that all scientists face similar problems and are equally unsure as to what should be done or how it can be done.

In closing my final report as your representative, I express my appreciation of having had this opportunity to participate in what has been for me a most stimulating experience.

PERRY W. WILSON

JOURNAL WANTED

Robert L. Stone, Department of Bacteriology, Indiana University, Bloomington, Ind. needs a copy of the June 1947 (Volume 53 No. 6) issue of the *Journal of Bacteriology* to complete his file. Anyone wishing to dispose of this issue or the complete Volume 53 should contact Dr. Stone.

Anyone wishing to dispose of the following journals should contact Dr. Charles Weiss, Albert Einstein Medical Center, York and Tabor Roads, Philadelphia 14, Pa.:

Journal of Bacteriology: 1923 Vol. 8 #3.

Journal of Immunology: 1925 Vol. 10 #4; 1946 Vol. 52 #2; 1947 Vol. 55 #4.

Proceedings Society for Experimental Biology and Medicine: 1924 Vol. 21 #5.

Bacteriological Reviews: 1945 Vol. 9 #1.

NEISSERIA MENINGITIDIS

Dr. Sara E. Branham, of the National Institutes of Health, Bethesda 14, Maryland, wishes to know

if anyone has meningococcus strain NIH 2103, Group II. This is a valuable strain which is needed in a special study. Dr. Branham has been unable to locate it and will appreciate receiving it.

PASTEUR AWARD

Joshua and Ester Lederberg of the University of Wisconsin are the joint recipients of the 1956 Pasteur Award of the Illinois Branch "in recognition of their outstanding contributions to microbiology, particularly for their fundamental studies in bacterial genetics."

The award is made annually to an outstanding Midwestern microbiologist.

Dr. and Mrs. Lederberg were presented with the award at the annual banquet of the Branch held at the Edgewater Beach Hotel, Chicago, May 19th.

MARYLAND BRANCH AWARDS

The Maryland Branch of the Society of American Bacteriologists announces with pride the winners of their annual awards honoring the memory of two of their most illustrious members, J. Howard Brown and Barnett Cohen.

These awards are given in recognition of contributions to the Science of Microbiology and are presented annually to persons in the Maryland Area.

The J. Howard Brown Achievement Award for undergraduate work was received by Mr. Martin R. Ross, Fort Detrick, Frederick, Maryland for his contributions on the chemical nature of the antigens of the Psittacosis and Feline Pneumonitis Virus.

The Barnett Cohen Achievement Award for post-doctorate work was received by Dr. Leon M. Jacobs, National Institutes of Health, Bethesda, Maryland for his many contributions in the fields of microbiology and immunology and especially for his research on the cultivation, transmission, immunology and treatment of toxoplasmosis.

The material reward commemorating this occasion is an engraved and framed citation and one year membership to the Society of American Bacteriologists.

NEWS OF OUR MEMBERS

Dr. Geoffrey W. Rake has been appointed scientific director of the International Division of Olin Mathieson. Dr. Rake will be responsible for all pharmaceutical, medical, and veterinary research conducted by Olin Mathieson's Squibb International Division outside of the United States.

Four of the Society's members, Drs. Karl F. Meyer, John R. Paul, Richard E. Shope and Colin M. MacLeod, were among the five scientists from this country that made, at the request of the U.S. State Department, a 4 week trip in the U.S.S.R. Previously, a team of Soviet scientists had made a month-long visit in the U.S.

Dr. Allen I. Laskin joined the Squibb Institute staff in October as a Research Associate in the Assay and Strain Development Department.

Dr. W. Emanuel Suter has been appointed head of the department of microbiology at the University of Florida College of Medicine, Gainesville, Fla.

Dr. Glen E. Peterson joined the Squibb Institute staff in June as a Research Associate in the Microbiological Pilot Plant Department.

Dr. Paul R. Burkholder, head of the department of bacteriology at the University of Georgia, has been appointed director of research at the Brooklyn Botanic Garden.

Dr. C. Phillip Miller, professor of medicine, University of Chicago, has been elected to membership in the National Academy of Science.

Dr. Ralph E. Bennett joined the Squibb Institute staff in November as Head of the Microbial Biochemistry Department.

Dr. Werner K. Maas, New York University, has been awarded a Lalor Foundation Faculty Research Award to work at the Marine Biological Laboratory, Woods Hole, Mass. during the summer of 1956.

Dr. Albert G. Moat, Hahnemann Medical College, will spend the summer at Cornell University working in microbial genetics under a Lalor Foundation Faculty Summer Research Award.

Dr. Alfred S. Sussman, University of Michigan, has received a Lalor Foundation Faculty Summer Research Award to continue his work in mycology at the University of Michigan.

Dr. Aaron Novick, University of Chicago, has received a Lalor Foundation Faculty Summer Research Award to work at Cold Spring Harbor on cytochemical genetics.

Dr. Riley D. Housewright has been appointed Scientific Director of the Army Chemical Corps Biological Warfare Laboratories at Fort Detrick, Frederick, Md.

BOOKS RECEIVED AND REVIEW

Methods in Enzymology, Volume 2, Sidney Colowick and Nathan Kaplan, Editors. New York: Academic Press, Inc.; 1955. xx plus 987 pp., \$23.50.

Methods in Enzymology is a 4 volume series on laboratory methods for the study of enzymes. The first two volumes, both of which are now available, are concerned with the preparation and assay of enzymes. Volume 3 (soon to be published) deals with the preparation and determination of substrates, whereas volume 4 (in preparation) describes special techniques. The increased interest in the role of enzymes in all biological phenomena has made the use of enzymes a common place operation in fields such as bacteriology, immunology, etc. Hence, *Methods in Enzymology* has been published to make the latest methods avail-

able to research in bordering areas of biological science as well as to the field of enzymology. The contributions were solicited from among those enzymologists who have developed or had experience with reliable preparations and assay procedures. Each volume contains a comprehensive subject index and an author index, the latter including the authors cited in the bibliography. In addition, there is a cross-referencing system.

Volume 2 of this series, containing 152 articles, is divided into five sections. Section 1, on the enzymes of protein metabolism includes contributions on proteinases, peptidases, enzymes of blood clotting, enzymes for amino acid degradation and synthesis (amino group and carbon skeleton transformations), urea synthesis, ammonia liberation, and nitrate metabolism. Section 2, on nucleic acid metabolism, is divided among articles on nucleases, nucleotidases, deaminases, oxidases, and enzymes of nucleotide synthesis. Section 3, gives procedures for preparing phosphoesterases, polyphosphatases, ATPases, and phosphate transferring enzymes. Section 4, deals with enzymes of vitamin and coenzyme metabolism, such as vitamin phosphorylation. Section 5, describes the preparation of respiratory enzymes including pyridine-nucleotide, flavin-, iron-phosphoryl, and copper-containing types. Each contribution gives the reagents, procedure for assay, directions for purification, and properties of the enzyme.

This volume is a logical counterpart of volume 1 in that it completes the spectrum of enzymes available to the experimenter. Judging by the immediate and continued usefulness of both volumes 1 and 2 in our laboratory, there seems to be no doubt that the complete set will become standard equipment in any laboratory where enzymes are studied or used.

WILLIS A. WOOD

Microbiology, General and Applied. William Bowen Sarles, William Carroll Frazier, Joe Bransford Wilson and Stanley Glenn Knight, New York: Harper and Brothers, 2nd edition, 1956. ix + 491 pp. \$5.75.

Bacterial Anatomy. Society for General Microbiology Symposium #6. Edited by E. T. C. Spooner and B. A. D. Stocker, New York: Cambridge University Press, 1956. viii + 360 pp. \$6.00.

Methods of Biochemical Analysis. Volume III. David Glick, Editor. New York: Interscience Publishers, Inc., 1956. x + 437 pp. \$9.50.

Advances in Enzymology. Volume 17. F. F. Nord, Editor, New York: Interscience Publishers, Inc., 1956. vi + 556 pp. \$11.00.

Enzymes: Units of Biological Structure and Function. (Henry Ford International Symposium). Oliver H. Gaebler, Editor, New York: Academic Press, Inc., 1956. viii + 624 pp. \$12.00.

NEWS AND MEETINGS OF LOCAL BRANCHES

Allegheny Branch (Gladys Sather, Secretary-Treasurer)

March 24, 1956. The sixteenth general meeting of the Branch was held at Mellon Institute, Pittsburgh. Following the custom of several years, the Branch invited a guest speaker from outside the area served by the Branch. Dr. Wallace Rowe of the National Institutes of Health was the guest speaker. The scientific program follows:

1. The Effects of Measured Acoustic Fields on *Micrococcus pyogenes* var. *aureus* and *Escherichia coli*. R. C. Dalzell, J. J. Reid and H. L. Kinsloe, Pennsylvania State University.
2. Studies on Spores of Aerobic Bacilli. W. K. Harrell, West Virginia University.
3. The Decomposition of Certain Herbicides by the Soil Microflora. J. D. Douros and J. J. Reid, Pennsylvania State University.
4. Studies on the Pathogenicity of *Nocardia asteroides*. R. G. Spears and D. Moore, West Virginia University.
5. Modification of Hamster Susceptibility to Japanese B Encephalitis Virus. I. Z. E. Imam and W. McD. Hammon, University of Pittsburgh.
6. Studies on Human Measles. G. Ruckle, University of Pittsburgh.
7. Studies on the APC Viruses and a New Virus Recovered from Human Adenoids. Wallace Rowe, National Institutes of Health, Bethesda, Md.

Northern California Branch (H. J. Phaff, Secretary-Treasurer)

March 21, 1956. The Branch met in the Medical Sciences Building, San Francisco campus, of the University of California. Following announcements by the President and questions from the floor the following papers were presented.

1. Mutant Production in Bacteriophage by a Disturbance of DNA-metabolism. Rose M. Litman and Arthur B. Pardee, University of California at Berkeley.
2. Mutagenicity of Thymine Deficiency. Carroll A. Coughlin, University of California at Berkeley.
3. Glutamate Fermentation by *Clostridium tetanomorphum*. H. A. Barker, Agnete Munch-Peterson and Marilyn Wilson, University of California at Berkeley.
4. Species of Propionium bacterium Associated with the Zapatera Spoilage of Olives. S. Plastourgor and R. H. Vaughn, University of California at Davis.
5. The Structure of *Azotobacter vinelandii*. A. G. Marr and E. H. Cota-Robles, University of California at Davis.
6. A pH Gradient Agar Plate. Lawrence E.

Sacks, Western Utilization Research Branch USDA, Albany, Cal.

7. Listeriosis: Factors in Immunity. J. W. Osbold, University of California at Davis.

8. The Spread of Coagulase Positive Staphylococci in the Hospital Nursery. Valerie Hurst, University of California Medical Center, San Francisco.

Southern California Branch (Henry E. Weimer, Secretary-Treasurer)

February 18, 1956. The February meeting of the Branch was held in the Life Science Building, University of California at Los Angeles. The scientific session consisted of the following papers:

1. Antibiotic Sensitivity Pattern of Bacteroides Species. S. M. Finegold and W. L. Hewitt, School of Medicine, University of California at Los Angeles.

2. Recent Evidence Favoring a Biological Origin for the Native Sulfur in the Salt Domes of Texas and Louisiana. G. E. Jones, R. L. Starkey, H. Feely and J. L. Kulp, Scripps Institute of Oceanography, Rutgers University, and Lamont Geological Observatory, Palisades, N. Y.

3. Drug Susceptibility Tests for *Mycobacterium tuberculosis*: A Comparative Study of Standard V.A. and Semi-quantitative Techniques. E. A. Brosbe, C. R. Smith, P. T. Sugihara, and L. Hyde, Veterans Administration Hospital, Long Beach, Cal.

4. Key to Rapid Speciation of the Genus *Proteus*. R. E. Hoyt, M. Seltzer and M. J. Pickett, Cedars of Lebanon Hospital and University of California at Los Angeles.

5. A Dichotomous Key for Grouping the Enteric Bacilli. M. J. Pickett, R. E. Hoyt and M. L. Scott, University of California at Los Angeles and Cedars of Lebanon Hospital, Los Angeles.

May 24, 1956. The May meeting of the Branch was held at the Los Angeles County General Hospital. The following papers were presented at the scientific session:

1. Serum Glycoprotein Studies During the Anamnestic Response. H. E. Weimer, J. Redlich-McShin, F. A. Quinn and E. L. Nelson, School of Medicine, University of California, Los Angeles.

2. The Kinetics of Immune Hemolysis at Zero Degrees Centigrade. D. L. McVicker, School of Medicine, University of California, Los Angeles.

3. Factors Associated with Growth of *Streptococcus salivarius*. T. A. Nevin, A. M. Kurtz and M. D. Appleman, University of Southern California.

4. Pathologic Studies of Cardiovascular Disease in Guinea Pigs with Experimental Brucellosis. C. M. Carpenter, S. Ohno and D. H. Howard, University of California at Los Angeles and City of Hope, Duarte, Cal.

5. Influenza Virus Isolations During the Spring of 1956. J. J. Quilligan, E. A. Groggin, P. R. Fowler and M. L. Scott, College of Medical Evangelists, University of Southern California and Los Angeles County Hospital.

6. Listeria Meningitis. J. Dedrick and M. Parish, Los Angeles County Hospital.

Illinois Branch (Charles J. Rickher, Secretary)

May 19, 1956. The 1956 Pasteur Award Meeting of the Branch was held at the Edgewater Beach Hotel. The afternoon meetings of two sections was followed by the Pasteur Award Dinner. Following the dinner the Pasteur Award was presented to Drs. Joshua and Ester M. Lederberg. The Pasteur Award Lecture, "Germs", was given by Dr. Lederberg.

The Medical Section scientific session, presided over by I. Millman, consisted of the following papers.

1. The Laboratory Diagnosis of Tuberculosis in Infants and Children at the Children's Memorial Hospital in 1955. Robert A. West, Jr., The Children's Memorial Hospital, Chicago.

2. Antigenic Relationships between Mycobacteria as Determined by Agar Diffusion Precipitation Techniques. Robert Parlett and Guy P. Youmans, Northwestern University Medical School, Chicago.

3. Objective Double Diffusion Analysis. Robert K. Jennings, Rheumatic Fever Research Institute, Chicago.

4. The Effect of Coagulase on the Antibacterial Activity of Normal Human Serum Against Selected Strains of *Micrococcus pyogenes*. Richard D. Ekstedt, Northwestern University Medical School, Chicago.

5. Phagocytosis of PR8 Influenza Virus in Mice. Robert J. Hanson, University of Illinois, College of Medicine, Chicago.

6. The Relationship between Bacteriophages of Salmonellae and Their O Antigens. W. I. Taylor and J. H. Silliker, Swift and Co., Chicago.

7. Studies of Certain Factors Concerned with Sensitivity of Viral and Rickettsial Complement Fixation Tests. H. B. Harding, Nell McNulty, Nanette Coggs, and Opal E. Hepler, Northwestern University Medical School, Chicago.

General Section, R. S. Wolfe presiding.

1. The Germination of Macroconidia and Growth of Hyphae of *Microsporium gypseum* Under the Influence of Actidione, Endomycin, Filipin and Mycostatin. Harold E. Elliott, Leon J. LeBean and Milan Novak, University of Illinois, Chicago.

2. Pure Starter Cultures in the Manufacture of Fermented Sausages. Robert H. Deibel and C. F. Niven, Jr., American Meat Institute, Chicago.

3. Relationship between the Dilution Factor and Bacterial Plate Counts. Rosemarie Meyer, Illinois Institute of Technology, Chicago.

4. Sedimentation Patterns of Yeasts and Some of Their Adsorptive Characteristics. Leslie R. Hedrick, Illinois Institute of Technology, Chicago.

5. The Biosynthesis of Methionine from Homocysteine and S-Methylmethionine. Stanley K. Shapiro, Argonne National Laboratory, Lemont, Ill.

6. Enzymatic Conversion of Pteroylglutamic Acid to Citrovorum Factor by Partially Purified Extracts of *Lactobacillus casei*. C. R. Heisler and B. S. Schweigert, American Meat Institute and the University of Chicago.

7. Isolation and Properties of a DNA containing Vesicular Structure from Protoplasts of *B. megatherium*. A. Aronson and S. Spiegelman, University of Illinois, Urbana.

8. Symposium (in conjunction with medical section). A. Novic, Convenor. A. Koch, Argonne National Laboratory, E. S. Lennox, University of Illinois, Urbana, C. C. Lindegren, Southern Illinois University, Carbondale, S. E. Luria, University of Illinois, Urbana, and A. Novick, University of Chicago.

Michigan Branch (Elizabeth J. Cope, Secretary-Treasurer)

May 25, 1956. The Spring meeting of the Branch was held at Giltner Hall, Michigan State University, East Lansing, Mich. The following program comprised the scientific session:

1. A Serological Study of *B. pertussis* and Related Organisms, Grace Eldering, Chester Hornbeck, and Julia Baker, Michigan Department of Health, Grand Rapids.

2. Solvent Activators of *Neurospora* ascospore Germination. Alfred Sussman and Elizabeth Tyrrell, University of Michigan, Ann Arbor.

3. Evaluating High Temperature Pasteurization Processes. O. W. Kaufmann, Michigan State University, East Lansing.

4. Quantitative Changes in the Distribution of Plasma Protein Components in Cancer Patients as Determined by Chicken Antisera. Morris Goodman and David S. Ramsey, Detroit Institute of Cancer Research.

5. Sorbic Acid as a Selective Agent in Cucumber Fermentations. R. N. Costilow, F. M. Coughlin and E. D. Robbins, Michigan State University, East Lansing.

6. Studies on Glucosamine-6-phosphate N-acetylase. Eugene A. Davidson, Harold J. Blumenthal and Saul Roseman, University of Michigan, Ann Arbor.

Maryland Branch (Edward J. Herbst,
Secretary-Treasurer)

February 29, 1956. The Branch met at the new auditorium of the Johns Hopkins Hospital for the following scientific papers:

1. Physiologic Studies on the Action of Rickettsial Toxins. Charles L. Wiseman, Jr., School of Medicine, University of Maryland.

2. An Experimental Analysis of the Curative Action of Penicillin in Acute Bacterial Infections. W. Barry Wood, Jr., The Johns Hopkins Hospital.

April 14, 1956. The Branch held an afternoon-evening meeting at Fort Detrick, Frederick, Md. The evening session was opened by the presentation of the Branches two awards in honor of J. Howard Brown and Barnett Cohen. The address of the evening session, "Cytological Consequences of Ultra violet Irradiation of Lypogenic and Mutant Strains of *Escherichia coli*" was presented by Stuart Mudd, University of Pennsylvania. The afternoon session consisted of the following papers:

1. Studies on Pathogenesis of Plague: Response of Guinea Pig Lungs to *in vivo* and *in vitro* *Pasteurella pestis* Cultures. George M. Fukui, W. D. Lawton, W. A. Janssen and M. J. Surgalla, Fort Detrick, Md.

2. Some Physical-chemical Factors Influencing Spherulation of *C. immitis* in a chemically Defined Liquid Medium. John Converse, Fort Detrick, Md.

3. An Enzymatic Assay Method for Tryptophane. L. H. Frank, The Johns Hopkins University.

4. Cross Infection Among Animals Challenged with *Bacillus anthracis*. G. B. Phillips, J. V. Jemski, F. E. Novak and H. G. Brant, Fort Detrick, Md.

5. The Reactivation Phenomenon in Rickettsia rickettsii. J. H. Gilford, School of Hygiene and Public Health, The Johns Hopkins University.

6. Activation of *Clostridium botulinum* Type E Toxin by Trypsin. J. T. Duff, G. G. Wright and Allen Yarinski, Fort Detrick, Md.

7. Mycosis-like Granuloma in Fish. K. E. Wolf, S. F. Snieszko and E. M. Wood, Fish and Wildlife Service, Kearneysville, W. Va.

8. Plasma and Agar Medium for Cultivation of *M. tuberculosis*. Capt. Thomas Sparkes, Fort George G. Meade, Md.

Eastern Missouri Branch (Alex C. Sonnenwirth,
Secretary-Treasurer)

February 14, 1956. The 63rd Meeting of the Branch was held at the Wohl Health Center, St. Louis. Dr. R. W. Schlesinger, St. Louis University, spoke on "Enzymatic Activity of Influenza Virus in Infected Tissue".

April 7, 1956. The 64th Meeting of the Branch was held at the Daniel Boone Hotel, Columbia, Mo.

The scientific session consisted of the following papers:

1. Persistence of Artificially Induced Microorganisms in the G. I. Tract of New-born Mice. C. Riley, V. J. Cabelli and R. Keller, School of Medicine and College of Agriculture, University of Missouri.

2. Translocation of Antibiotics During the Course of Disease Treatment in Plants. R. N. Goodman, College of Agriculture, University of Missouri.

3. Certain Aspects of Pathogenesis of an Experimental Infection in Irradiated and Normal Animals. I. L. Schichmeister, L. J. Paulisson, R. A. Yunker, T. S. Kenelley and A. Kohn, Washington University School of Dentistry and University of Arkansas.

New Jersey Branch (Theobald Smith Society;
Madelon R. Grimm, Secretary)

April 26, 1956. The Branch met at the Schering Corporation, Bloomfield, New Jersey. The program concerned "Theobald Smith, his papers and their influence on microbiology today", reviewed by Drs. Solotorovsky, Lechevalier, Johnson and Goldberg.

May 24, 1956. An afternoon picnic-supper meeting was held at Douglass College, Rutgers University. The following officers were elected to serve for 1956-1957: President, David Hendlin, Research Labs., Merck & Co., Rahway; Vice-President, Werner Braun, Institute of Microbiology, Rutgers University, New Brunswick; Secretary, Madelon R. Grimm, CIBA Pharmaceutical Products Inc., Summit; Treasurer, Helen S. Kroll, E. R. Squibb & Sons, New Brunswick; Councilor, Eugene R. L. Gaughran, Johnson & Johnson, New Brunswick. Following the business meeting, the scientific program included:

1. Limitations of Infrared Spectroscopy in Microbiology. Frederick C. Kull and Madelon R. Grimm, CIBA Pharmaceutical Products Inc., Summit.

2. Comparative Study of the Cell Wall Composition of Streptomyces and Nocardia. Arthur Sohler and Antonio Romano, Institute of Microbiology, New Brunswick.

3. Heterokaryotic Recombinations Among Antibiotic Producing Streptomycetes. Donald Braendle and Wacław Szybalski, Institute of Microbiology, New Brunswick.

4. The Isolation of a Microbial Product that Stimulates Tetraene Antibiotic Formation by a Streptomycete. James Bush, Institute of Microbiology, New Brunswick.

5. Factors Affecting *in vitro* Testing with Cathomycin Sensitivity Discs. Dale Harris, R. B. Walton, Lora L. Jackson, Merck & Co., Rahway.

6. The Use of a Lyophilized Human Plasma,

Standardized for Blood Coagulation Factors, in the Coagulase Test. Frank J. Turner, Warner-Chilcott, Morris Plains.

Central New York Branch (Richard D. O'Neil, Secretary-Treasurer)

May 19, 1956. The 70th Semi Annual Meeting of the Branch was held at Cornell University, Ithaca, N. Y. The scientific sessions consisted of the following papers:

1. Studies in Methane Fermentation. M. Pine, Roswell Park Memorial Institute, Buffalo.
2. Nutritional Requirements of Some Anaerobic Streptococci. S. E. Mergenhausen, University of Rochester.
3. Immunochemistry of Capsular Polysaccharides of *Escherichia coli* K28A and K34A. B. B. Wiley, University of Rochester.
4. Antimetabolic Action of Analogues of the Thiamine Pyrimidine in Bacteria. R. Guthrie and M. Hillman, Roswell Park Memorial Institute, Buffalo.
5. Serologic Relationship of Poliomyelitis Virus and the Virus of Infectious Canine Hepatitis. J. E. Prier, New York State College of Medicine, Syracuse.
6. Rabbit Serum Antitoxic Plasma Factor and Human Accessory Factor. Louise Miller, New York State College of Medicine, Syracuse.
7. Use of Oxygen by *Clostridium perfringens*. Morton Mallin and H. W. Seeley, Cornell University.

Symposium: Non Therapeutic Uses of Antibiotics.

1. Antibiotic Supplements to Animal Feeds. Richard Warner, Cornell University.
2. Use of Antibiotics in Studies of Bacteriophage. J. R. Christensen, University of Rochester.
3. Use of Antibiotics in Plants. H. L. Dickson, Bristol Laboratories, Syracuse.
4. Summation. F. C. Fink, Chas. Pfizer Co., New York.

Eastern New York Branch (Sally M. Kelly, Secretary-Treasurer)

May 10, 1956. The Spring Meeting of the Branch was held at the Huyck Auditorium of Albany Hospital. Following a short business meeting, the following papers were presented:

1. Atypical Acid Fast Bacilli as a Cause of Pulmonary Disease. Mary E. Clark, New York State Department of Health, Albany.
2. Rapid Test of Virulence of *Mycobacterium tuberculosis* by Inoculation of Cisterna Magna of Guinea Pigs. C. D. Brown and A. H. Harris, New York State Department of Health, Albany.
3. Immunologic Studies of Human High-Density Lipoproteins. Louis DeLalla, Lawrence Levine

and R. K. Brown. New York State Department of Health, Albany.

4. A Test of the Validity of Reactivation of Bacteria. Charles Hurwitz and Carmen Rosano, Veterans Administration Hospital, Albany.

5. On the Kinetics of a Megateriumphage Mutation. H. L. Ehrlich and C. J. Pfau, Rensselaer Polytechnic Institute, Troy.

6. Results of One Year's Examination of Human Stools in Cell Cultures. Johan Winsser, New York State Department of Health, Albany.

New York City Branch (J. S. Kiser, Secretary)

March 20, 1956. The 73rd meeting of the Branch was held at Memorial Hospital Auditorium, the following papers were presented:

1. Speculations on Antibiotics. W. Umbreit, Merck and Co., Inc., Rahway, N. J.
2. Azaserine as an Inhibitor in Purine Biosynthesis. Bruce Levenberg, National Institutes of Health, Bethesda, Md.

Northeast Branch (Alice T. Marston, Secretary-Treasurer)

April 13, 1956. The Spring Meeting of the Branch was held at Tufts University Medical School, Boston. The evening session was devoted to an address by Dr. Herbert Block, Public Health Research Institute of the City of New York who spoke on "The Differing Attributes of Microorganisms Grown *in vivo* and *in vitro*".

The afternoon session consisted of the following papers:

1. Numbers and Types of Enterococci and Coliforms in Fecal Samples and in Sewage. Mary L. Sullivan, Clara H. Hartley and L. W. Slanetz, University of New Hampshire, Durham.
2. Differentiation of *Proteus morgani* from other *Proteus* by a Simple, Rapid Phosphatase Test. Helen B. Stuart and C. A. Stuart.
3. Host Influence on Upper Respiratory Flora. Marjorie B. Dunlap and H. S. Harvey, Nashoba Associated Boards of Health, Ayer, Mass.
4. The Bacteriologic Flora of Voided Urine in Relation to Infections of the Urinary Tract. Joanne Colburn and E. H. Kass, Boston City Hospital and Harvard Medical School, Boston.

Ohio Branch (F. J. Murray, Secretary-Treasurer)

March 2 and 3, 1956. A joint meeting of the Ohio and Michigan Branches was held at the Whittier Hotel, Detroit. The evening of the first day of the meeting, Dr. C. F. Robinow, University of Western Ontario, London Ontario, Canada, was the guest of the two Branches. After the smorgasbord dinner Dr. Robinson spoke on "Chromatin Bodies of Bacteria".

The scientific sessions were held in two sections, Dr. D. T. Maunder convening section A, Dr. D. J.

Merchant, section B. The following papers were presented:

Section A

1. Color Variation in *Chromobacterium choco-latum*. Judith Truden and Rosario Teodoro, Wayne University, Detroit.
2. The Use of Dry Mounting to Extend the Limits of Visibility of the Phase Microscope. W. W. Mathews, Wayne University, Detroit.
3. *In vitro* Antibiotic Sensitivity Testing and the Use of Single Conventional or Combined Disc Techniques. F. L. Ligenzowski, V. A. Center, Dayton.
4. Repeated Synchronization of Cell Division in Yeasts. A. Campbell, University of Michigan, Ann Arbor.
5. Cyto-immunological Studies on Bacterial Membranes. J. W. Vennes and Philipp Gerhardt, University of Michigan, Ann Arbor.
6. The Application of a Surface Plating Technique to the Enumeration of High Population Samples. W. L. Mallmann, F. R. Peabody and Selwyn Broitman, Michigan State University, East Lansing.
7. Poliomyelitis Virus as a Cell; Photochemical Inactivation by Ultraviolet Light. A. R. Taylor, I. W. McLean, Jr. and A. E. Hook, Parke Davis and Co., Detroit.
8. The Role of Amino Acids in the Germination of Spores of Anaerobic Bacteria. S. M. S. Zoha and H. Orin Halvorson, Michigan State University, East Lansing, Michigan and University of Illinois, Urbana, Ill.
9. Metabolic Studies of Fowl Pox Infected Chorioallantoic Membrane. C. I. Randles and Helen Faulkner, Ohio State University, Columbus.
10. Growth of Two Species of Endomycopsis in the Presence of Homocysteine and Some Trans-methylating Agents. R. P. Elander and C. C. Kuehner, University of Detroit, Detroit.
11. The Tricarboxylic Acid Cycle and Pigment Formation by *Serratia marcescens*. Michael Bilitch, Miami University, Oxford, O.
12. Cytochrome Oxidase Activity of Cells of the Genus *Brucella*. Marvis Richardson, Michigan State University, East Lansing.

Section B

1. Production in Rabbits of Hemagglutinins for Enteropathogenic *E. coli*. Mary H. Henley, Major C. D. Graber and M. C. Dodd, Ohio State University, Columbus.
2. The Serological Response in Chickens to Beta-Propiolactone Treated Newcastle Disease Virus. W. N. Mack and A. Chotisen, Michigan State University, East Lansing.
3. Experimental Immunization with Western Equine Encephalitis Vaccines. Isaac Ruckman, The Wm. S. Merrell Co., Cincinnati.

4. Treponemal Antigens in the Diagnosis of Syphilis. A. H. Wheeler and C. W. Christensen, University of Michigan, Ann Arbor, and Dific Laboratories, Detroit.

5. Agar Diffusion Studies of Tuberculosis Antigen-Antibody Reaction. R. G. Burrell, M. S. Rheins and J. M. Birkeland, Ohio State University, Columbus.

6. Conditions for Microscopic Agglutination of Mammalian Tissue Cells Grown *in vitro*. J. H. Kite, Jr. and D. J. Merchant, University of Michigan, Ann Arbor.

7. Effect of Periodate and Mumps Virus on the Serologic Properties of Rh Erythrocytes. Nancy J. Bigley and M. C. Dodd, Ohio State University, Columbus.

8. The Post Mortem Distribution of *Escherichia coli*, a Normal Intestinal Inhabitant. G. W. Rose, Wayne University, Detroit.

9. Clinical and Laboratory Studies of an Intracranial Family Epidemic of A.P.C. Virus Infection. R. G. Van Horne, G. R. Anderson, R. L. Carr, F. J. Flatley and S. Saslaw, Ohio State University and State Health Laboratory, Columbus.

10. Phagocytosis of *Mycobacterium tuberculosis* and *Mycobacterium smegmatis* Stained with Indicator Dyes. Marian Grace Sprick, Michigan Department of Health, Powers, Mich.

11. Micrococcus pyogenes in Newborn Infants. J. A. Donahue, J. N. Baldwin, M. S. Rheins and T. S. Shaffer, Ohio State University, Columbus.

12. Chronic Leptospirosis in Hamsters. E. H. Bohl, Ohio State University, Columbus.

Symposium on Immunizing Antigens. W. J. Nungester, Convener.

1. Vaccination Against Influenza: Implications of the "Doctrine of Original Antigenic Sin". F. M. Davenport, University of Michigan, Ann Arbor.

2. Active Immunization Against Anthrax. Fred Stimpert, Parke Davis and Co., Detroit.

3. Active Immunization Against Tuberculosis. Ray Sarber, Parke Davis and Company, Detroit.

4. Fungal Antigens. Samuel Saslaw, Ohio State University, Columbus.

5. Antigenic Response of Tissues. Abraham Stavitsky, Western Reserve University, Cleveland.

Eastern Pennsylvania Branch (T. G. Anderson, Secretary-Treasurer)

March 27, 1956. The 255th meeting of the Branch was held in Medical Alumni Hall, School of Medicine, University of Pennsylvania. The scientific program, devoted to microbial genetics, consisted of the following papers:

1. Influence of Ploidy on Thermal Inactivation of Yeast. Thomas Wood, University of Pennsylvania. Discussed by Arnold Clark, University of Delaware.

2. Genetic and Serologic Analysis of the Immobilizing Antigens of Paramecium. Irving Finger,

diagnosis of Christensen, and Difco

ulosis Anti-tell, M. S. ate Univer-

tination of J. H. iversity of

irus on the tes. Nancy University,

Escherichia W. Rose,

of an Intra-tion. R. G. Carr, F. J. iversity and

tuberculosis with Indi-chigan De-

rn Infants. Rheins and olumbus.

ers. E. H.

ns. W. J.

mplications Sin". F. M. n Arbor.

thrax. Fred t.

tuberculosis y, Detroit. Ohio State

Abraham Cleveland.

Anderson,

the Branch ol of Medi-e scientific , consisted

activation of Pennsylv-iversity of

of the Im-ing Finger,

University of Pennsylvania. Discussed by Robert Connors, Bryn Mawr College.

3. Suppressor Mutations in Purine—requiring Salmonella. Joseph Gots, University of Pennsylvania. Discussed by Charles Doudney, University of Pennsylvania.

April 24, 1956. The 256th meeting was an afternoon meeting at Wyeth Laboratories, Radnor, Pa. The scientific meeting was preceded by a tour of Wyeth Institute for Medical Research. The scientific program consisted of the following papers:

1. The Production of Poliomyelitis Vaccine. J. H. Brown, Wyeth Laboratories.
2. Studies of Certain Immunologically Significant Components of *H. pertussis* Cells. W. F. Verway, Merck, Sharpe and Dohme Research Laboratories.
3. An Approach to Fungal Chemotherapy. R. C. Bard, Smith Kline French Laboratories.

May 15, 1956. The 257th meeting of the Branch was held in Klahr Auditorium, Hahnemann Medical College, Philadelphia. The following papers comprised the scientific session:

1. Electron Scattering Granules and Reducing Sites in Mycobacteria. Stuart Mudd, Kinji Takeya and H. J. Henderson, University of Pennsylvania.
2. A Review of Chromogenic Acid-Fast Bacilli. Carl Clancy, Pennsylvania Hospital.
3. Constitutional Factors in Resistance to Tuberculosis. On the Role of the Thyroid Hormone. M. D. Lurie, Peter Zappasodi, Richard Levy and G. S. Ninos, University of Pennsylvania.

South Central Branch (Emmett J. Johnson, Secretary-Treasurer)

May 12, 1956. The Spring Meeting of the Branch was held at the Faculty Club, Louisiana State University, Baton Rouge. The scientific session consisted of the following papers:

1. Characteristics of *Azotobacter vinelandii* which might make it suitable for Human Food. Lois Almon, Lois Kilgore and M. Gieger, Mississippi Agricultural Station, State College, Miss.
2. Urea Splitting Micrococcus from Genito-Urinary Tract Infections. Victor Monsour, Con-

federate Memorial Medical Center, Shreveport, La.

3. A New Quantitative Technique for the *in vitro* Measurement of Antifungal Action. John Krafchuk, Louisiana State University School of Medicine, New Orleans, La.
4. Synthesis of Some Biotin Compounds of Possible Physiological Significance. Sally Canthen and Virginia Williams, Louisiana State University.
5. Aspects of the Decomposition and Utilization of Maleic Hydrazide by Bacteria. William Lembeck and A. R. Colmer, Louisiana State University.
6. Some Aspects of the Microbial Oxidation of Methane. L. R. Brown and R. J. Strawinski, Louisiana State University.
7. Microbial Oxidation of Butane. P. G. Rosano and R. J. Strawinski, Louisiana State University.
8. Microbial Salicylate Production. R. E. Klausmeir and R. J. Strawinski, Louisiana State University.

Washington Branch (Howard Reynolds, Secretary-Treasurer)

March 27, 1956. The 209th meeting of the Branch was held in Sternberg Auditorium of the Walter Reed Army Institute of Research. The following papers were presented:

1. Serum Prophylaxis of Rabies. Karl Habel, National Institutes of Health, Bethesda.
2. *Lactobacillus lactis*. P. A. Hansen and R. H. Miller, University of Maryland.
3. Rapid Serological Identification of *Mima polymorpha* and of *Herellea* Species. Sylvia G. Cary and R. B. Lindbergh, Walter Reed Army Institute of Research and J. E. Faber, Jr., University of Maryland.

April 24, 1956. The 210th meeting of the Branch, held at the Walter Reed Army Institute of Research, was devoted to a discussion of the training of bacteriologists. Dr. J. E. Faber, Jr., University of Maryland, Lt. Col. R. S. Lindbergh, Walter Reed Army Institute of Research and Mr. Lawrence Brugger of the U.S. Civil Service Commission led the discussion.

NEW MEMBERS

New Active Members

March 2, 1956 through June 19, 1956

Apel, Myron M., 114 E. Ninth St., Topeka, Kan.
 Arboleda, Roman Carlos E., 152 W. 75th. St., New York 23, N. Y.
 Aschheim, Lydie, 625 W. 169th. St., New York 32, N. Y.
 Baer, Harold, Dept. of Microbiology, Tulane

Univ. Sch. of Med., 1430 Tulane Ave., New Orleans 12, La.
 Baker, Robert B., 6868 Balsam Way, Oakland 11, Calif.
 Barzotti, Amadeo M., General Delivery, Westlake, La.
 Benkendorf, Sol, 1820 W. 3rd. Street, Brooklyn 23, N. Y.

- Bilitch, Michael, Box 6, Upham Hall, Miami University, Oxford, Ohio
- Boeing, Paul J., Bowey's Inc., 401 W. Superior St., Chicago, Ill.
- Brady, Robert J., Bacteriology Dept., Univ. of Maryland, College Park, Md.
- Bruecken, J. Thomas, City of Pittsburgh Filtration Plant, Delafield Rd., Pittsburgh 15, Pa.
- Bunn, Ruth K., 5909 Page Blvd., St. Louis 12, Mo.
- Cauduro, Paulo Fausto, Rua Garibaldi 1205, Porto Alegre, Rio Grande do Sul, Brasil
- Cohen, Rita C., 2121 82nd. St., Brooklyn 14, N. Y.
- Consigli, Richard A., Dept. of Bacteriology, Univ. of Kansas, Lawrence, Kan.
- Contreras, Anthony A., Surgical Research Unit, Brooke Army Medical Center, Ft. Sam Houston, Texas
- Converse, John L., M. B. Division, Fort Detrick, Frederick, Md.
- Cornwell, James O., 915 State St., Pine Bluff, Ark.
- Crouse, Melvin D., 803 Humboldt Parkway, Buffalo 8, N. Y.
- Czaplicki, Phyllis A., Dower House, Wellesley College, Wellesley, Mass.
- Damewood, Logan A., 686 Beachview Dr., Fort Walton Beach, Fla.
- Darling, Charles L., 102½ W. 32nd. St., Austin, Texas
- DaVanzo, John P., Univ. of New Mexico, Dept. of Biology, Albuquerque, N. M.
- Davis, Raymond F., Box 2562 University Station, Gainesville, Fla.
- Douros, John D., Jr., 118a Maple Rd., University Park, Pa.
- Duerksen, Jacob D., Dept. of Bacteriology, Univ. of Michigan, Ann Arbor, Mich.
- Durand, Rene R., 846 E. 7th. N., Provo, Utah
- Epple, Marcia Cathrine, 558 Heckman Rd., Rt #2, Uniontown, Ohio
- Epstein, Herman T., Brandeis Univ., Waltham, Mass.
- Evans, Robert E., Medical Laboratories Bldg., Iowa City, Iowa
- Feeley, Robert V., 712 Park Place, Austin, Texas
- Fluegel, Walter, Dept. of Zoology, Univ. of Washington, Seattle 5, Wash.
- Fredell, Walter G., Lambert-Hudnut Div., Warner Lambert Pharmaceutical, Morris Plains, N. J.
- Gambrill, Loycelyn B., 600 N. Loudon Ave., Baltimore 29, Md.
- Gaudy, Anthony F., Jr., P.O. Box 432, Corvallis, Ore.
- Gentry, Glenn A., Dept. of Microbiology, Vanderbilt Univ. Sch. of Medicine, Nashville, Tenn.
- George, Donald M., 1301 Bonita Ave., Berkeley 9, Calif.
- Gerstein, Maurice J., 953 E. 31st. St., Brooklyn 10, N. Y.
- Gibbs, James V., Box 248, Virginia State Coll., Petersburg, Va.
- Goldenfield, Irving H., Atlantic Gelatin Div., General Foods, Hill St., Woburn, Mass.
- Gorczyca, Leonard R., 1344 E. Osborn Rd., Phoenix, Ariz.
- Guynes, Gloria Joyce, 1431 Maroby, Houston 17, Texas
- Happold, Frank C., Dept. of Biochemistry, Univ. of Leeds, 9 Hyde Terrace, Leeds 2, England
- Harriman, Louis A., Armour and Co., Union Stock Yards, Chicago, Ill.
- Hartley, Wesley G., 127 West 43rd. St., Jacksonville, Fla.
- Honigsberg, Ruth, 11 East 100 St., New York 29, N. Y.
- Hubert, Earl G., P.O. Box 415, Vermillion, S. D.
- Hunsicker, Lois C., 701 Greenwood Ave., Akron 20, Ohio
- Jordan, Chris S., 4804 Birchman Ave., Fort Worth, Texas
- Joswick, Harry L., 19942 Mackay St., Detroit 34, Mich.
- Kaminsky, Daniel, Dept. of Microbiology, Div. of Path-Metropolitan Hosp., 1901 First Ave., New York 29, N. Y.
- Karner, Harold, Vanderbilt Univ., Box 1126, Station B, Nashville 5, Tenn.
- Keller, Kenneth, 101 W. Chestnut St., Louisville, Ky.
- Kereluk, Karl, Dept. of Microbiology, Michigan State Univ., East Lansing, Mich.
- King, Eugenia M., 2402 Shakespeare Rd., Houston 25, Texas
- Klosek, Richard C., 123 School St., Olyphant, Pa.
- Kolb, Ludwig, 8130 Warten Ave., Wauwatosa 13, Wis.
- Krause, Richard M., Hosp. of Rockefeller Inst., 66th. St. & York Ave., New York 21, N. Y.
- Kulbaski, Frank E., 113 N. Main St., Ashley, Pa.
- Lancaster, Rose Mary, 2540 Fenton Ave., Bronx 69, N. Y.
- Landau, Burton J., Dept. of Bacteriology, Nesmith Hall, Univ. of New Hampshire, Durham, N. H.
- Langlely, Lorraine M., P.O. Box 5013, Phoenix, Ariz.
- Lucker, Jerome R., 83 Burton Ave., Woodmere, Long Island, N. Y.
- Lusk, Myron E., 1435 Ohio, Quincy, Ill.
- Mao, Thomas S. S., 221 Animal Science Lab., Univ. of Illinois, Urbana, Ill.
- Marta, Marianne T., 56 MacDougal St., New York 12, N. Y.
- Martin, James F., Morris Town, N. J., General Delivery
- Mason, Donald J., Dept. of Biological Sciences, Purdue University, W. Lafayette, Ind.
- Mason, Earl J., 2822 S. Moreland, Cleveland 20, Ohio

- State Coll.,
Mathews, Reed W., 3001 Washington Square,
Austin 5, Texas
- atin Div.,
Mass.
McGrath, Mary C., 15864 Tracey, Detroit 27,
Mich.
- born Rd.,
McNeill, John J., Dept. of Animal Industry,
North Carolina State Coll., Raleigh, N. C.
- ouston 17,
Micheline, Richard J., 238 S. Broadway, Aurora,
Ill.
- stry, Univ.
England
Co., Union
Mignone, Aurelius G., c/o St. Johns Univ. Coll.
of Pharm., 96 Schermerhorn St., Brooklyn,
N. Y.
- ., Jackson-
Purdue Univ., West Lafayette, Ind.
- w York 29,
Mizuba, Seth S., 4956 S. Blackstone Ave., Chi-
cago 15, Ill.
- lion, S. D.
ve., Akron
Morales, Hilbert, 517 W. Wood St., West Lafa-
yette, Ind.
- Ave., Fort
Morgan, Katherine B., 2245 5th. Ave., Fort
Worth, Texas
- Detroit 34,
Nakata, Herbert M., 1011 W. Illinois St., Urbana,
Ill.
- logy, Div.
First Ave.,
Nielsen, Peter A., 120 E. Central Ave., Pearl River,
N. Y.
- Box 1126,
Pacha, Robert E., Dept. of Microbiology, School
of Medicine, Univ. of Washington, Seattle 5,
Wash.
- Louisville,
Page, Calvin A., Box 457, S.L.I. Station, Lafayette,
La.
- Michigan
Parsons, Frances Z., 160 W. 35th. St., Hialeah,
Fla.
- ., Houston
Pederson, Donald E., Dept. of Bacteriology,
Oregon State Coll., Corvallis, Ore.
- phant, Pa.
watosa 13,
Perkins, James M., 95 Forest St., Worcester 9,
Mass.
- eller Inst.,
t, N. Y.
Pfeffer, Morris, Dept. of Agric. Biochem., Univ.
of Vermont, Burlington, Vt.
- ashley, Pa.
ve., Bronx
Pinzelik, John, Dept. of Biological Sciences,
Purdue University, Lafayette, Ind.
- y, Nesmith
am, N. H.
Phoenix,
Plucker, Anastasia F., 408 Degraw St., Brooklyn
31, N. Y.
- Woodmere,
Ill.
ence Lab.,
New York
General
Sciences,
eland 20,
Price, Stella, c/o Lab. Bldg., Wayne County Gen-
eral Hosp., Eloise, Mich.
- Mathews, Reed W., 3001 Washington Square,
Austin 5, Texas
- McGrath, Mary C., 15864 Tracey, Detroit 27,
Mich.
- McNeill, John J., Dept. of Animal Industry,
North Carolina State Coll., Raleigh, N. C.
- Micheline, Richard J., 238 S. Broadway, Aurora,
Ill.
- Mignone, Aurelius G., c/o St. Johns Univ. Coll.
of Pharm., 96 Schermerhorn St., Brooklyn,
N. Y.
- Miller, Brinton M., Dept. Biological Sciences,
Purdue Univ., West Lafayette, Ind.
- Mizuba, Seth S., 4956 S. Blackstone Ave., Chi-
cago 15, Ill.
- Morales, Hilbert, 517 W. Wood St., West Lafa-
yette, Ind.
- Morgan, Katherine B., 2245 5th. Ave., Fort
Worth, Texas
- Nakata, Herbert M., 1011 W. Illinois St., Urbana,
Ill.
- Nielsen, Peter A., 120 E. Central Ave., Pearl River,
N. Y.
- Pacha, Robert E., Dept. of Microbiology, School
of Medicine, Univ. of Washington, Seattle 5,
Wash.
- Page, Calvin A., Box 457, S.L.I. Station, Lafayette,
La.
- Parsons, Frances Z., 160 W. 35th. St., Hialeah,
Fla.
- Pederson, Donald E., Dept. of Bacteriology,
Oregon State Coll., Corvallis, Ore.
- Perkins, James M., 95 Forest St., Worcester 9,
Mass.
- Pfeffer, Morris, Dept. of Agric. Biochem., Univ.
of Vermont, Burlington, Vt.
- Pinzelik, John, Dept. of Biological Sciences,
Purdue University, Lafayette, Ind.
- Plucker, Anastasia F., 408 Degraw St., Brooklyn
31, N. Y.
- Price, Stella, c/o Lab. Bldg., Wayne County Gen-
eral Hosp., Eloise, Mich.
- Raymond, Richard G., 14314 Redmond-Woodin-
ville Rd., Redmond, Wash.
- Read, Barbara E., 4 McAlester, Univ. of Missouri,
Columbia, Mo.
- Rhodes, Muriel E., Dept. of Microbiology, The
University, Reading Berks, England
- Rivera, Bonilla Fernando, c/o Dr. Mariano Azuela,
139-3 Col. Sta. Ma. la Rivera, Mexico 4, D.F.
- Saltzman, Mollie, Bird S. Coler Hospital, Welfare
Island, New York, N. Y.
- Schaaf, Marianne V., 732 No. 17th St. Apt. 214,
Milwaukee, Wisc.
- Socolfsky, Marion D., 483 Kepner Rd., Ft. Walton,
Fla.
- Schaufus, Charles P., 75 Indian Rd., Waltham,
Mass.
- Schneider, Louis, 1821 Second Ave., New York
28, N. Y.
- Scrobe, Ann M., 1133 Gilbert St., S. E., Atlanta
16, Ga.
- Shankel, Delbert M., 2510 Seton Ave., Austin,
Texas
- Sheldon, Donald R., Dept. of Bacteriology, Walter
Reed Army Inst. of Res., Washington 12, D. C.
- Shirey, William N., 121 Fairview Ave., Frederick,
Md.
- Siebenberg, William, c/o Gunther Brewing Co.,
121 S. Conkling St., Baltimore 24, Md.
- Sister Mary Danutha, C.S.S.F., 36800 Schoolcraft,
Madonna College, Livonia, Mich.
- Stickle, Gene P., Squibb Inst. for Med. Res., New
Brunswick, N. J.
- Sullivan, Robert C., 1585 East 36 St., Brooklyn
34, N. Y.
- Sun, Clare C. C., Box 26, Campus Station, Socorro,
New Mexico
- Sykes, John A., M. D. Anderson Hosp. & Tumor
Inst., Houston 25, Texas
- Tant, Carl O., Biology Dept., Univ. of Houston,
Houston, Texas
- Treick, Ronald W., 625 Cottage Ave., Vermillion,
S. D.
- Truffelli, Thomas G., Dept. of Bacteriology-Snow
Hall, Univ. of Kansas, Lawrence, Kan.
- Twedt, Robert M., Dept. of Medicine, Univ. of
Minnesota, Minneapolis 14, Minn.
- Walsh, Frances R., McKesson & Robbins Inc.,
Labs., Bridgeport 9, Conn.
- Werder, Alvar A., Dept. of Med. Microbiology,
Kansas University, Medical Center, Kansas
City 12, Kansas
- Williams, Curtis A., Jr., Rockefeller Inst. for
Medical Res., New York, N. Y.
- Yotis, William W., 3491 Balfour Rd., Detroit,
Mich.
- Zallen, Harold, 10 Abbot St., Dorchester 24,
Mass.

Deceased Members

- Lockhart, Ashe, 800 Woodswether, Kansas City
6, Mo.
- Davis, David John, 721 Elmwood Ave., Wilmette,
Ill.
- Rettger, Leo F., 340 Ogden St., New Haven 11,
Conn.

New Emeritus Members

- Savage, Alfred, Agricultural College, Winnepeg,
Canada

**IMPORTANT
NOTICE**

**EFFECTIVE
IMMEDIATELY**

*Your Journals cannot
follow you from your
old address to your new one*

Attention All Members

Formerly, as you may know, we redeemed from the postoffice all copies of the Journal of Bacteriology and Bacteriological Reviews that could not be delivered because the member had moved *and failed to notify us*. This was always expensive. Recent changes in the postal laws and regulations have combined with increases in postal rates to make the expense prohibitive.

Therefore we can no longer attempt to reclaim undeliverable journals. They will be destroyed by the postoffice. You will be able to replace them only by purchasing duplicates from the publisher—at the regular price of single issues.

What you can do about it:

FIRST: Notify us—the **Business Office**—60 days in advance of moving to your new address.

SECOND: Notify the postmaster at your old address, and guarantee that you will pay the forwarding postage. According to Postal Laws and Regulations, "When a change of address is other than a change of local address, and the addressee has filed a written guarantee either on Form 22 or otherwise to pay forwarding postage . . . the copies of the second-class publications bearing the old address shall be forwarded to the new address for a period of three months rated with postage due. . . ." After the prescribed three-month period, undeliverable copies will be destroyed.

Remember: we depend upon you to notify us of your new address. And we cannot always be sure of having extra copies available when you order them.

Don't let this happen to you. Your Journal is valuable to you. A missing issue will cause you inconvenience and possibly permanent loss.

Make sure of receiving every issue. *Notify the publisher 60 days before you change your address.*

SOCIETY OF AMERICAN BACTERIOLOGISTS

Mt. Royal and Guilford Aves.

Business Office

Baltimore-2, Maryland

The fundamental physical, chemical and biological problems which confront every bacteriologist

Basic Bacteriology

ITS BIOLOGICAL & CHEMICAL BACKGROUND

By CARL LAMANNA, Ph.D. and M. FRANK MALLETT, Ph.D.

Clear and oriented presentation, valuable to both student and graduate worker, of the nature of cytological, morphological, taxonomic, physiological and biochemical problems—from the point of view of the interests and needs of the bacteriologist.

Introduces subject matter new to textbooks of bacteriology; places a different and refreshing emphasis on certain traditional matters. Gives you clear and fascinating explanation of bacteriological phenomena. Emphasizes ideas and principles rather than factual knowledge.

Large reproduction of four important diagrams is provided in a pocket inside the back cover:

Summary of the anaerobic metabolism of glucose and intracellular polysaccharide
Fermentation of pentoses and of glucose by way of the pentose-phosphate pathway
Reactions of carbohydrates induced by bacterial systems
Tricarboxylic acid cycle for the aerobic metabolism of pyruvate

680 pp., 100 figs., \$10.00

The Williams & Wilkins Company

Mt. Royal and Guilford Aves.

Baltimore 2, Maryland

Topley &
Wilson's

"No other text dealing with bacteriology remotely approaches this one for completeness and the excellence of presentation."

(New York State J. Med., May 1947)

PRINCIPLES of BACTERIOLOGY and IMMUNITY

4th Edition—1955

By G. S. Wilson, M.D.,
F.R.C.P., D.P.H., and A. A.
Miles, C.B.E., M.A., M.D.,
F.R.C.P.

CONTENTS

- I. General Bacteriology
- II. Systematic Bacteriology
- III. Infection and Resistance
- IV. Application of Bacteriology to Medicine and Hygiene

2 vols. 2390 pp.

196 tables

303 figs. \$24.50

Encyclopedic in scope, this "bacteriologic Bible" has been called indispensable by the *British Medical Journal*. The new edition, 300 pages longer than the last, has been thoroughly revised and brought up to date. New material includes studies on variation in bacteria, bacteriophages and viruses, phenomena of recombination and transduction that have opened up the new field of bacterial genetics; advances in knowledge of cellular morphology, cellular metabolism and virus production; new chemotherapeutic and antibiotic agents.

Clear, readable style, common-sense approach, full index duplicated in both volumes and comprehensive chapter bibliographies are among the book's valuable assets. There is increased emphasis on the bacteriology of infection in man and animals in this new edition.

THE WILLIAMS & WILKINS COMPANY

Mt. Royal and Guilford Avenues

Baltimore 2, Maryland

riology
mplete-
on."

(1947)

gic Bible"
h Medical
r than the
ught up to
riation in
nomena of
ve opened
advanced
r metabo-
herapeutic

pproach, a
d compre-
the book's
sis on the
als in this

ANY
Maryland